



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 4

Science and Ecosystem Support Division
Field Services Branch
980 College Station Road
Athens, Georgia 30605-2720

September 25, 2017

4SESD-FSB

MEMORANDUM:

SUBJECT: Soil Sampling Investigation Report (International Paper)
Wiggins, Mississippi
SESD Project No. 17-0399

FROM: Art Masters 
Enforcement Section

THRU: Mike Bowden, Chief 
Enforcement Section

TO: Brian Bastek
Corrective Action Specialist
RCRA Corrective Action and Permitting Section

Attached is the Soil Sampling Investigation Report for the sampling investigation conducted at the International Paper facility on June 15, 2017. If you have any questions or comments, please contact me by phone at (706) 355-8612 or by email at masters.arthur@epa.gov.

Attachment

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Project ID: 17-0399

Sampling Investigation Final Report International Paper

1633 South First Street

Wiggins, MS 39577

Project Date: June 15, 2017

Report Date: September 25, 2017



Project Leader: Art Masters
Enforcement Section
Field Services Branch
Science & Ecosystem Support Division
USEPA – Region 4
980 College Station Road
Athens, Georgia 30605-2720

The activities depicted in this report are accredited under the US EPA Region 4 Science and Ecosystem Support Division ISO/IEC 17025 accreditation issued by the ANSI-ASQ National Accreditation Board. Refer to certificate and scope of accreditation AT-1644.

Requestor:

Doug McCurry

Sr. Corrective Actions Specialist

RCRA Corrective Action Section

Resource Conservation & Restoration Division
(RCRD)

USEPA Region

461 Forsyth Street

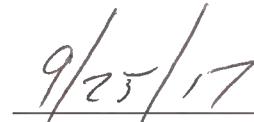
Atlanta, GA 30303

Approvals:

SESD Project Leader:



Art Masters
Enforcement Section
Field Services Branch

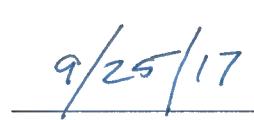


Date

Approving Official:



Mike Bowden, Chief
Enforcement Section
Field Services Branch



Date

SOIL SAMPLING INVESTIGATION REPORT
INTERNATIONAL PAPER
WIGGINS, MISSISSIPPI

I. INTRODUCTION

On June 15, 2017, Science and Ecosystem Support Division (SESD) personnel conducted a soil sampling investigation at the former International Paper facility located at 1633 S. First Street in Wiggins, Mississippi. The facility is now operated by Baldwin Pole. This investigation was requested by Doug McCurry of the Resource Conservation & Restoration Division (RCRD), Corrective Action Section.

The following personnel took part in the investigation:

<u>PERSONNEL</u>	<u>AFFILIATION</u>	<u>PHONE</u>
Arthur Masters	USEPA, SESD, Project Leader	706-355-8612
Mike Neill	USEPA, SESD	706-355-8614

II. SUMMARY

During SESD's investigation, five samples were collected (see Figure 1). Two soil samples were collected from each of the two treatment areas. Soil sample IP01 was collected from the area where the Chromated Copper Arsenate (CCA) treated poles are placed for inspection. A second sample, IP02 was collected from a low area near the CCA drip pad. Soil sample IP03 was collected from the area where pentachlorophenol treated poles are inspected. Soil sample IP04 was collected from a low area near the pentachlorophenol drip pad. A control soil sample, IP05, was collected from the lawn area west of the lab building. Pentachlorophenol was detected above the Regional Screening Level for Industrial Soil (RSL IS) of 4000 µg/kg in one sample, IP04 (11000 µg/kg). Arsenic was detected above the RSL of 3 mg/kg in samples IP01 (54 mg/kg), IP02 (1500 mg/kg) and IP04 (6.1 mg/kg).

III. BACKGROUND

The former International Paper Treated Wood Products Plant in Stone County, Mississippi is located approximately 2 miles south of the town of Wiggins. The plant, which has been operating since December 1969, was sold to Baldwin Pole Mississippi LLC (Baldwin Pole) on January 31, 2007. The overall manufacturing operations at the time of the sale comprised 88 acres of a larger 180-acre property. At the time of the sale, the property was sub-divided and a 92-acre portion containing the closed units was retained by International Paper (IPCo) (current IPCo property). The remaining 88 acres containing the active manufacturing portion of the facility was sold to Baldwin Pole (Baldwin Pole property). IPCo also has retained EPA HSWA Permit No. HW-980-600-084 formerly associated with the entire property. Under the EPA permit, IPCo retains responsibility for the completion of the RCRA corrective action program (CAP) at the facility, and eventual closure of Treatment Areas 1 and 2 (i.e., the drip pads), although IPCo is no longer the owner/operator of the manufacturing operations in which the Treatment Areas are located.

Corrective action has been ongoing at the International Paper facility since 1987. The facility has conducted wood preserving operations using creosote, cellon (pentachlorophenol/butane mix) and Chromated Copper Arsenate (CCA). The RCRA RFI has shown groundwater contamination, soil contamination and potential impact on an adjacent stream. Storm water runoff from contaminated soils on site may impact Church House Branch.

IV. DISCUSSION OF FIELD ACTIVITIES

USEPA SESD personnel arrived at the site at about 8:30 AM on June 15, 2016 and after meeting with Roy McDonald, Baldwin Pole's Operations Manager, began an inspection and sampling in accordance with SESD's Quality Assurance Project Plan dated June 07, 2017. Samples were collected from the pole inspection areas on both treatment lines and adjacent to each drip pad. A control sample was collected for comparison purposes. Sample locations are listed in Table 1 and displayed in Figure 1.

Table 1 Sample Locations and Descriptions

Sample ID	Latitude	Longitude	Description	Matrix
IP01	30.83450	-089.12727	4-point composite from CCA inspection area 0"- 3"	Soil
IP02	30.83537	-089.12810	Grab from low spot adjacent to CCA drip pad 0"- 3"	Soil
IP03	30.83410	-089.12856	2-point composite from Penta inspection area 0"- 3"	Soil
IP04	30.83465	-089.12871	Grab from adjacent to Penta drip pad 0"- 3"	Soil
IP05	30.83375	-089.12971	Control soil sample grab 0"- 3"	Soil

Sample IP01 was a four-point composite sample collected from the CCA inspection area. Sample IP02 was a grab collected from a low spot adjacent to the CCA drip pad. Sample IP03 was a two-point composite collected from the pentachlorophenol pole inspection area. Sample IP04 was a grab sample collected adjacent to the pentachlorophenol drip pad. Sample IP05 was the control soil sample collected from the lawn area west of the lab building.

Five photographs were taken as part of this investigation by Art Masters. They are included with captions in this report following the data tables.

V. RESULTS OF ANALYSES

Samples were analyzed for metals scan using USEPA methods 6010 and 200.8 and for semi-volatile organics scan using USEPA method 8270D. Table 2 contains the metals scan summary. Table 3 contains the semi-volatile organic data summary. Table 4 contains the metals results compared to the RSLs. Table 5 contains the semi-volatile organics compared to the RSLs. The tables present results only for detected analytes. SESD's complete analytical reports are included as Appendix A.

A total of fifteen metals were detected in sample IP01, with only arsenic, 54mg/kg, exceeding the RSL. In addition, there were four semi-volatile organic compounds detected in IP01 with none exceeding the RSL IS.

In sample IP02, fifteen metals analytes and seven semi-volatile organic analytes were detected above the minimum detection limits. Arsenic, detected at 1500 mg/kg was the only analyte which exceeded the RSL IS of 3mg/kg.

The analysis of sample IP03 detected seventeen metals analytes and fifteen semi-volatile organic analytes above the minimum detection limit with no analytes exceeding the RSL IS.

Sample IP04 contained sixteen metals analytes and nineteen semi-volatile organic analytes. Arsenic, 6.1 mg/kg and pentachlorophenol, 11000 µg/kg exceeded the respective RSL IS of 3 mg/kg and 4000 µg/kg.

Seventeen metals analytes were detected in the control sample, IP05. There were no semi-volatile organics detected above the minimum detection limits. No analytes in IP05 exceeded the RSL IS.

VI. RESULTS OF FIELD QUALITY CONTROL SAMPLES

Sample IP05 was collected as a control sample. Results of quality control analyses are contained in the Laboratory Analytical Reports in Appendix A, and are acceptable for the purposes of this investigation. The reported results are accurate within the limits of the methods.

VII. METHODOLOGY

Field activities were conducted in accordance with the Region 4, SESD *Field Branches Quality System and Technical Procedures* and the site specific Quality Assurance Project Plan dated June 7, 2017. Specific field procedures applicable to this investigation included the following:

Soil Sampling, SESDPROC-300-R3

Management of Investigation Derived Waste, SESDPROC -202-R3

Field Equipment Cleaning and Decontamination, SESDPROC -205-R3

Global Positioning System, SESDPROC -110-R4

Samples were analyzed at the SESD laboratory in accordance with the *SESD Analytical Support Branch Laboratory Operations and Quality Assurance Manual*, April 24, 2017. The SESD laboratory is accredited by the ANSI-ASQ National Accreditation Board/ACCLASS for ISO/IEC 17025.



FIGURE 1

Table 2

Metals Data Summary
 International Paper
 Wiggins, MS June, 2017

-	Station ID	IP01	IP02	IP03	IP04	IP05
-	Sample ID	IP01	IP02	IP03	IP04	IP05
-	Matrix	Surface Soil	Surface Soil	Surface Soil	Surface Soil	Surface Soil
-	Date	6/15/2017 9:40	6/15/2017 10:00	6/15/2017 10:20	6/15/2017 10:35	6/15/2017 10:50
Analyte	Units					
% Solids	%	90	88	94	93	83
Aluminum	mg/kg dry	1900 J,O	590	2200	1500	4900
Antimony	mg/kg dry	U	8.2	U	U	U
Arsenic	mg/kg dry	54	1500	0.62	6.1	1.4
Barium	mg/kg dry	5.9	8.3	8.7	7.3	24
Calcium	mg/kg dry	660 J,O	4800	1100	31000	350
Chromium	mg/kg dry	170	1200	5.1	10	7.5
Cobalt	mg/kg dry	U	U	U	U	1.7
Copper	mg/kg dry	73	670	2.3	22	5.2
Iron	mg/kg dry	4500 J,O	3400	5100	5700	5600
Lead	mg/kg dry	2.7	22	3.7	4.4	12
Magnesium	mg/kg dry	51	410	230	5500	150
Manganese	mg/kg dry	13	51	20	89	310
Nickel	mg/kg dry	U	U	1.1	4.5	1.8
Potassium	mg/kg dry	U	U	100	U	U
Strontium	mg/kg dry	1.4	8.0	2.0	41	2.1
Tin	mg/kg dry	U	17	U	U	U
Titanium	mg/kg dry	19	17	24	21	42
Vanadium	mg/kg dry	7.7	U	9.7	7.3	12
Yttrium	mg/kg dry	0.79	U	1.2	1.3	6.8
Zinc	mg/kg dry	2.8	22	3.2	10	7.8

Qualifiers

U - The analyte was not detected at or above the reporting limit.

J - The identification of the analyte is acceptable; the reported value is an estimate.

O - Other qualifiers have been assigned. See printable pdf report for explanation.

Table 3

SemiVolatile Organic Data Summary

International Paper

Wiggins, MS June, 2017

-	Station ID	IP01	IP02	IP03	IP04	IP05
-	Sample ID	IP01	IP02	IP03	IP04	IP05
-	Matrix	Surface Soil	Surface Soil	Surface Soil	Surface Soil	Surface Soil
-	Date	6/15/2017 9:40	6/15/2017 10:00	6/15/2017 10:20	6/15/2017 10:35	6/15/2017 10:50
Analyte		Units				
% Solids	%	90	88	94	93	83
2,3,4,6-Tetrachlorophenol	ug/kg dry	U	U	U	670	U
Acenaphthylene	ug/kg dry	U	U	54 J,O	120	U
Acetophenone	ug/kg dry	U	U	U	65 J,O	U
Anthracene	ug/kg dry	U	U	100	240	U
Benzaldehyde	ug/kg dry	U	41000	U	3400	U
Benzo(a)anthracene	ug/kg dry	U	U	42 J,O	1000	U
Benzo(a)pyrene	ug/kg dry	U	U	120	1100	U
Benzo(b)fluoranthene	ug/kg dry	33 J,O	43 J,O	280	2800	U
Benzo(g,h,i)perylene	ug/kg dry	U	U	560	810	U
Benzo(k)fluoranthene	ug/kg dry	U	U	170	2400	U
Benzyl alcohol	ug/kg dry	420	620000	390	39000	U
Carbazole	ug/kg dry	U	U	39 J,O	240	U
Chrysene	ug/kg dry	31 J,O	59 J,O	110	2900	U
Dibenz(a,h)anthracene	ug/kg dry	U	U	67 J,O	260	U
Fluoranthene	ug/kg dry	U	56 J,O	63 J,O	2300	U
Indeno (1,2,3-cd) pyrene	ug/kg dry	U	U	280	810	U
Pentachlorophenol	ug/kg dry	290 J,O	1600	170 J,O	11000	U
Phenanthrene	ug/kg dry	U	81	U	180	U
Pyrene	ug/kg dry	U	U	100	3300	U

Qualifiers

U - The analyte was not detected at or above the reporting limit.

J - The identification of the analyte is acceptable; the reported value is an estimate.

O - Other qualifiers have been assigned. See printable pdf report for explanation.

Table 4

Metals Data Summary with Industrial Soil RSL Comparison

International Paper

Wiggins, MS June, 2017

	Station ID	Comparison Standard	IP01	IP02	IP03	IP04	IP05	
	Sample ID	RSL Industrial Soil	IP01	IP02	IP03	IP04	IP05	
	Matrix	June 2017 THQ=1	Surface Soil	Surface Soil	Surface Soil	Surface Soil	Surface Soil	
	Sample Date		6/15/2017 9:40	6/15/2017 10:00	6/15/2017 10:20	6/15/2017 10:35	6/15/2017 10:50	
Analyte	Units							
% Solids	%		90	88	94	93	83	
Aluminum	mg/kg dry	<u>1100000 mg/kg</u>	1900 J,O	590	2200	1500	4900	
Antimony	mg/kg dry	<u>470 mg/kg</u>	U	8.2	U	U	U	
Arsenic	mg/kg dry	<u>3 mg/kg</u>	54 ^	1500 ^	0.62	6.1 ^	1.4	
Barium	mg/kg dry	<u>220000 mg/kg</u>	5.9	8.3	8.7	7.3	24	
Calcium	mg/kg dry		660 J,O	4800	1100	31000	350	
Chromium	mg/kg dry		170	1200	5.1	10	7.5	
Cobalt	mg/kg dry	<u>350 mg/kg</u>	U	U	U	U	1.7	
Copper	mg/kg dry	<u>47000 mg/kg</u>	73	670	2.3	22	5.2	
Iron	mg/kg dry	<u>820000 mg/kg</u>	4500 J,O	3400	5100	5700	5600	
Lead	mg/kg dry	<u>800 mg/kg</u>	2.7	22	3.7	4.4	12	
Magnesium	mg/kg dry		51	410	230	5500	150	
Manganese	mg/kg dry	<u>26000 mg/kg</u>	13	51	20	89	310	
Nickel	mg/kg dry	<u>22000 mg/kg</u>	U	U	1.1	4.5	1.8	
Potassium	mg/kg dry		U	U	100	U	U	
Strontium	mg/kg dry	<u>700000 mg/kg</u>	1.4	8.0	2.0	41	2.1	
Tin	mg/kg dry	<u>700000 mg/kg</u>	U	17	U	U	U	
Titanium	mg/kg dry		19	17	24	21	42	
Vanadium	mg/kg dry	<u>5800 mg/kg</u>	7.7	U	9.7	7.3	12	
Yttrium	mg/kg dry		0.79	U	1.2	1.3	6.8	
Zinc	mg/kg dry	<u>350000 mg/kg</u>	2.8	22	3.2	10	7.8	
Qualifiers								

U - The analyte was not detected at or above the reporting limit.

J - The identification of the analyte is acceptable; the reported value is an estimate.

O - Other qualifiers have been assigned. See printable pdf report for explanation.

Table 5

SemiVolatile Organic Data Summary with Industrial Soil RSL Comparison

International Paper

Wiggins, MS June, 2017

-	Station ID	Comparison Standard	IP01	IP02	IP03	IP04	IP05
-	Sample ID	RSL Industrial Soil	IP01	IP02	IP03	IP04	IP05
-	Matrix	June 2017 THQ=1:	Surface Soil	Surface Soil	Surface Soil	Surface Soil	Surface Soil
-	Sample Date	-	6/15/2017 9:40	6/15/2017 10:00	6/15/2017 10:20	6/15/2017 10:35	6/15/2017 10:50
Analyte	Units						
% Solids	%		90	88	94	93	83
2,3,4,6-Tetrachlorophenol	ug/kg dry	<u>25000000 ug/kg</u>	U	U	U	670	U
Acenaphthylene	ug/kg dry		U	U	54 J,O	120	U
Acetophenone	ug/kg dry	<u>120000000 ug/kg</u>	U	U	U	65 J,O	U
Anthracene	ug/kg dry	<u>230000000 ug/kg</u>	U	U	100	240	U
Benzaldehyde	ug/kg dry	<u>820000 ug/kg</u>	U	41000	U	3400	U
Benzo(a)anthracene	ug/kg dry	<u>21000 ug/kg</u>	U	U	42 J,O	1000	U
Benzo(a)pyrene	ug/kg dry	<u>2100 ug/kg</u>	U	U	120	1100	U
Benzo(b)fluoranthene	ug/kg dry	<u>21000 ug/kg</u>	33 J,O	43 J,O	280	2800	U
Benzo(g,h,i)perylene	ug/kg dry		U	U	560	810	U
Benzo(k)fluoranthene	ug/kg dry	<u>210000 ug/kg</u>	U	U	170	2400	U
Benzyl alcohol	ug/kg dry	<u>82000000 ug/kg</u>	420	620000	390	39000	U
Carbazole	ug/kg dry		U	U	39 J,O	240	U
Chrysene	ug/kg dry	<u>2100000 ug/kg</u>	31 J,O	59 J,O	110	2900	U
Dibenz(a,h)anthracene	ug/kg dry	<u>2100 ug/kg</u>	U	U	67 J,O	260	U
Fluoranthene	ug/kg dry	<u>30000000 ug/kg</u>	U	56 J,O	63 J,O	2300	U
Indeno (1,2,3-cd) pyrene	ug/kg dry	<u>21000 ug/kg</u>	U	U	280	810	U
Pentachlorophenol	ug/kg dry	<u>4000 ug/kg</u>	290 J,O	1600	170 J,O	11000 ^	U
Phenanthrene	ug/kg dry		U	81	U	180	U
Pyrene	ug/kg dry	<u>23000000 ug/kg</u>	U	U	100	3300	U

Qualifiers

U - The analyte was not detected at or above the reporting limit.

J - The identification of the analyte is acceptable; the reported value is an estimate.

O - Other qualifiers have been assigned. See printable pdf report for explanation.



Photo 1

IP01 CCA Inspection Area



Photo 2

IP02 adjacent to CCA drip pad



Photo 3

IP03 Pentachlorophenol inspection area



Photo 4

IP04 adjacent to Penta drip pad



Photo 5

IP05 Control Sample

Appendix A

Analytical Data Report

53 pages



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division

980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 17-0399

Project: 17-0399, International Paper/Baldwin Pole - Reported by Terri White

July 20, 2017

4SESD-ASB

MEMORANDUM

SUBJECT: FINAL Analytical Report

Project: 17-0399, International Paper/Baldwin Pole

Resource Conservation and Recovery Act

FROM: Terri White

ICS Analyst

THRU: Floyd Wellborn, Chief

ASB Inorganic Chemistry Section

TO: Arthur Masters

Attached are the final results for the analytical groups listed below. These analyses were performed in accordance with the Analytical Support Branch's (ASB) Laboratory Operations and Quality Assurance Manual (ASB LOQAM) found at www.epa.gov/region4/secd/asbsop. Any unique project data quality objectives specified in writing by the data requestor have also been incorporated into the data unless otherwise noted in the Report Narrative. Chemistry data have been verified based on the ASB LOQAM specifications and have been qualified by this laboratory if the applicable quality control criteria were not met. Verification is defined in Section 5.2 of the ASB LOQAM. For a listing of specific data qualifiers and explanations, please refer to the Data Qualifier Definitions included in this report. The reported results are accurate within the limits of the method(s) and are representative only of the samples as received by the laboratory.

Analyses Included in this report:

Method Used:

Accreditations:

Physical Properties (PHYSP)

Physical Properties

EPA 200.2 (Soil)

ISO

Total Metals (TMTL)

Total Metals

EPA 200.8 (Soil)

ISO

Total Metals

EPA 6010 (Soil)

ISO



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division

980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 17-0399

Project: 17-0399, International Paper/Baldwin Pole - Reported by Terri White

Sample Disposal Policy

Due to limited space for long term sample storage, ASB's policy is to dispose of samples on a periodic schedule. Air samples collected in summa canisters will be disposed of 30 days following the issuance of this report. All other sample media including original samples, sample extracts and or digestates will be disposed of, in accordance with applicable regulations, 60 days from the date of this report.

This sample disposal policy does not apply to criminal samples which are held until the laboratory is notified by the criminal investigators that case development and litigation are complete.

These samples may be held in the laboratory's custody for a longer period of time. If samples require storage beyond the 60-day period, please contact the Sample Control Coordinator by e-mail at

R4SampleCustody@epa.gov.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division

980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 17-0399

Project: 17-0399, International Paper/Baldwin Pole - Reported by Terri White

SAMPLES INCLUDED IN THIS REPORT

Project: 17-0399, International Paper/Baldwin Pole

Sample ID	Laboratory ID	Matrix	Date Collected	Date Received
IP01	E172408-01	Surface Soil	6/15/17 09:40	6/16/17 12:40
IP02	E172408-02	Surface Soil	6/15/17 10:00	6/16/17 12:40
IP03	E172408-03	Surface Soil	6/15/17 10:20	6/16/17 12:40
IP04	E172408-04	Surface Soil	6/15/17 10:35	6/16/17 12:40
IP05	E172408-05	Surface Soil	6/15/17 10:50	6/16/17 12:40



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division

980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 17-0399

Project: 17-0399, International Paper/Baldwin Pole - Reported by Terri White

DATA QUALIFIER DEFINITIONS

U The analyte was not detected at or above the reporting limit.

J The identification of the analyte is acceptable; the reported value is an estimate.

QM-1 Matrix Spike Recovery less than method control limits

ACRONYMS AND ABBREVIATIONS

CAS Chemical Abstracts Service

Note: Analytes with no known CAS identifiers have been assigned codes beginning with "E", the EPA ID as assigned by the EPA Substance Registry System (www.epa.gov/srs), or beginning with "R4-", a unique identifier assigned by the EPA Region 4 laboratory.

MDL Method Detection Limit - The minimum concentration of a substance (an analyte) that can be measured and reported with a 99% confidence that the analyte concentration is greater than zero.

MRL Minimum Reporting Limit - Analyte concentration that corresponds to the lowest demonstrated level of acceptable quantitation. The MRL is sample-specific and accounts for preparation weights and volumes, dilutions, and moisture content of soil/sediments.

TIC Tentatively Identified Compound - An analyte identified based on a match with the instrument software's mass spectral library. A calibration standard has not been analyzed to confirm the compound's identification or the estimated concentration reported.

ACCREDITATIONS:

ISO ASB is accredited by ISO/IEC 17025, including an amplification for forensic accreditation through ANSI-ASQ National Accreditation Board.

Refer to the certificate and scope of accreditation AT-1644 at:
<http://www.epa.gov/aboutepa/about-region-4s-science-and-ecosystem-support-division-sesd>

NR The EPA Region 4 Laboratory has not requested accreditation for this test.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division

980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 17-0399

Project: 17-0399, International Paper/Baldwin Pole - Reported by Terri White

Total Metals

Project: 17-0399, International Paper/Baldwin Pole**Sample ID: IP01****Lab ID: E172408-01****Station ID: IP01****Matrix: Surface Soil****Date Collected: 6/15/17 9:40**

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7429-90-5	Aluminum	1900	J, QM-1	mg/kg dry	9.9	6/27/17 10:26	6/29/17 17:02	EPA 6010
7440-36-0	Antimony	0.20	U, J, QM-1	mg/kg dry	0.20	6/27/17 10:28	7/12/17 11:59	EPA 200.8
7440-38-2	Arsenic	54		mg/kg dry	0.99	6/27/17 10:28	7/12/17 12:03	EPA 200.8
7440-39-3	Barium	5.9		mg/kg dry	0.50	6/27/17 10:26	6/29/17 17:02	EPA 6010
7440-41-7	Beryllium	0.30	U	mg/kg dry	0.30	6/27/17 10:26	6/29/17 17:02	EPA 6010
7440-43-9	Cadmium	0.099	U	mg/kg dry	0.099	6/27/17 10:28	7/12/17 11:59	EPA 200.8
7440-70-2	Calcium	660	J, QM-1	mg/kg dry	25	6/27/17 10:26	6/29/17 17:02	EPA 6010
7440-47-3	Chromium	170		mg/kg dry	0.50	6/27/17 10:26	6/29/17 17:02	EPA 6010
7440-48-4	Cobalt	0.50	U	mg/kg dry	0.50	6/27/17 10:26	6/29/17 17:02	EPA 6010
7440-50-8	Copper	73		mg/kg dry	0.99	6/27/17 10:26	6/29/17 17:02	EPA 6010
7439-89-6	Iron	4500	J, QM-1	mg/kg dry	9.9	6/27/17 10:26	6/29/17 17:02	EPA 6010
7439-92-1	Lead	2.7		mg/kg dry	0.20	6/27/17 10:28	7/12/17 11:59	EPA 200.8
7439-95-4	Magnesium	51		mg/kg dry	25	6/27/17 10:26	6/29/17 17:02	EPA 6010
7439-96-5	Manganese	13		mg/kg dry	0.50	6/27/17 10:26	6/29/17 17:02	EPA 6010
7439-98-7	Molybdenum	0.99	U	mg/kg dry	0.99	6/27/17 10:26	6/29/17 17:02	EPA 6010
7440-02-0	Nickel	0.99	U	mg/kg dry	0.99	6/27/17 10:26	6/29/17 17:02	EPA 6010
7440-09-7	Potassium	99	U	mg/kg dry	99	6/27/17 10:26	6/29/17 17:02	EPA 6010
7782-49-2	Selenium	0.40	U	mg/kg dry	0.40	6/27/17 10:28	7/12/17 11:59	EPA 200.8
7440-22-4	Silver	0.50	U	mg/kg dry	0.50	6/27/17 10:26	6/29/17 17:02	EPA 6010
7440-23-5	Sodium	99	U	mg/kg dry	99	6/27/17 10:26	6/29/17 17:02	EPA 6010
7440-24-6	Strontium	1.4		mg/kg dry	0.50	6/27/17 10:26	6/29/17 17:02	EPA 6010
7440-28-0	Thallium	0.20	U	mg/kg dry	0.20	6/27/17 10:28	7/12/17 11:59	EPA 200.8
7440-31-5	Tin	1.5	U	mg/kg dry	1.5	6/27/17 10:26	6/29/17 17:02	EPA 6010
7440-32-6	Titanium	19		mg/kg dry	0.50	6/27/17 10:26	6/29/17 17:02	EPA 6010
7440-62-2	Vanadium	7.7		mg/kg dry	0.50	6/27/17 10:26	6/29/17 17:02	EPA 6010
7440-65-5	Yttrium	0.79		mg/kg dry	0.30	6/27/17 10:26	6/29/17 17:02	EPA 6010
7440-66-6	Zinc	2.8		mg/kg dry	0.99	6/27/17 10:26	6/29/17 17:02	EPA 6010



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division

980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 17-0399

Project: 17-0399, International Paper/Baldwin Pole - Reported by Terri White

Physical Properties

Project: 17-0399, International Paper/Baldwin Pole

Sample ID: IP01

Lab ID: E172408-01

Station ID: IP01

Matrix: Surface Soil

Date Collected: 6/15/17 9:40

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	90		%	0.0	6/22/17 17:18	6/23/17 10:15	EPA 200.2



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D.A.R.T. Id: 17-0399

Project: 17-0399, International Paper/Baldwin Pole - Reported by Terri White

Total Metals

Project: 17-0399, International Paper/Baldwin Pole**Sample ID: IP02****Lab ID: E172408-02****Station ID: IP02****Matrix: Surface Soil****Date Collected: 6/15/17 10:00**

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7429-90-5	Aluminum	590		mg/kg dry	100	6/27/17 10:26	6/29/17 17:11	EPA 6010
7440-36-0	Antimony	8.2		mg/kg dry	0.20	6/27/17 10:28	7/12/17 12:56	EPA 200.8
7440-38-2	Arsenic	1500		mg/kg dry	20	6/27/17 10:28	7/12/17 12:25	EPA 200.8
7440-39-3	Barium	8.3		mg/kg dry	5.0	6/27/17 10:26	6/29/17 17:11	EPA 6010
7440-41-7	Beryllium	3.0 U		mg/kg dry	3.0	6/27/17 10:26	6/29/17 17:11	EPA 6010
7440-43-9	Cadmium	0.10 U		mg/kg dry	0.10	6/27/17 10:28	7/12/17 12:56	EPA 200.8
7440-70-2	Calcium	4800		mg/kg dry	250	6/27/17 10:26	6/29/17 17:11	EPA 6010
7440-47-3	Chromium	1200		mg/kg dry	5.0	6/27/17 10:26	6/29/17 17:11	EPA 6010
7440-48-4	Cobalt	5.0 U		mg/kg dry	5.0	6/27/17 10:26	6/29/17 17:11	EPA 6010
7440-50-8	Copper	670		mg/kg dry	10	6/27/17 10:26	6/29/17 17:11	EPA 6010
7439-89-6	Iron	3400		mg/kg dry	100	6/27/17 10:26	6/29/17 17:11	EPA 6010
7439-92-1	Lead	22		mg/kg dry	0.20	6/27/17 10:28	7/12/17 12:56	EPA 200.8
7439-95-4	Magnesium	410		mg/kg dry	250	6/27/17 10:26	6/29/17 17:11	EPA 6010
7439-96-5	Manganese	51		mg/kg dry	5.0	6/27/17 10:26	6/29/17 17:11	EPA 6010
7439-98-7	Molybdenum	10 U		mg/kg dry	10	6/27/17 10:26	6/29/17 17:11	EPA 6010
7440-02-0	Nickel	10 U		mg/kg dry	10	6/27/17 10:26	6/29/17 17:11	EPA 6010
7440-09-7	Potassium	1000 U		mg/kg dry	1000	6/27/17 10:26	6/29/17 17:11	EPA 6010
7782-49-2	Selenium	0.40 U		mg/kg dry	0.40	6/27/17 10:28	7/12/17 12:56	EPA 200.8
7440-22-4	Silver	5.0 U		mg/kg dry	5.0	6/27/17 10:26	6/29/17 17:11	EPA 6010
7440-23-5	Sodium	1000 U		mg/kg dry	1000	6/27/17 10:26	6/29/17 17:11	EPA 6010
7440-24-6	Strontium	8.0		mg/kg dry	5.0	6/27/17 10:26	6/29/17 17:11	EPA 6010
7440-28-0	Thallium	0.20 U		mg/kg dry	0.20	6/27/17 10:28	7/12/17 12:56	EPA 200.8
7440-31-5	Tin	17		mg/kg dry	15	6/27/17 10:26	6/29/17 17:11	EPA 6010
7440-32-6	Titanium	17		mg/kg dry	5.0	6/27/17 10:26	6/29/17 17:11	EPA 6010
7440-62-2	Vanadium	5.0 U		mg/kg dry	5.0	6/27/17 10:26	6/29/17 17:11	EPA 6010
7440-65-5	Yttrium	3.0 U		mg/kg dry	3.0	6/27/17 10:26	6/29/17 17:11	EPA 6010
7440-66-6	Zinc	22		mg/kg dry	10	6/27/17 10:26	6/29/17 17:11	EPA 6010



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D.A.R.T. Id: 17-0399

Project: 17-0399, International Paper/Baldwin Pole - Reported by Terri White

Physical Properties

Project: 17-0399, International Paper/Baldwin Pole

Sample ID: IP02

Lab ID: E172408-02

Station ID: IP02

Matrix: Surface Soil

Date Collected: 6/15/17 10:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	88		%	0.0	6/22/17 17:18	6/23/17 10:15	EPA 200.2



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Project: 17-0399, International Paper/Baldwin Pole - Reported by Terri White

Total Metals

Project: 17-0399, International Paper/Baldwin Pole**Sample ID: IP03****Lab ID: E172408-03****Station ID: IP03****Matrix: Surface Soil****Date Collected: 6/15/17 10:20**

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7429-90-5	Aluminum	2200		mg/kg dry	10	6/27/17 10:26	6/29/17 17:14	EPA 6010
7440-36-0	Antimony	0.20	U	mg/kg dry	0.20	6/27/17 10:28	7/12/17 12:30	EPA 200.8
7440-38-2	Arsenic	0.62		mg/kg dry	0.20	6/27/17 10:28	7/12/17 12:30	EPA 200.8
7440-39-3	Barium	8.7		mg/kg dry	0.50	6/27/17 10:26	6/29/17 17:14	EPA 6010
7440-41-7	Beryllium	0.30	U	mg/kg dry	0.30	6/27/17 10:26	6/29/17 17:14	EPA 6010
7440-43-9	Cadmium	0.10	U	mg/kg dry	0.10	6/27/17 10:28	7/12/17 12:30	EPA 200.8
7440-70-2	Calcium	1100		mg/kg dry	25	6/27/17 10:26	6/29/17 17:14	EPA 6010
7440-47-3	Chromium	5.1		mg/kg dry	0.50	6/27/17 10:26	6/29/17 17:14	EPA 6010
7440-48-4	Cobalt	0.50	U	mg/kg dry	0.50	6/27/17 10:26	6/29/17 17:14	EPA 6010
7440-50-8	Copper	2.3		mg/kg dry	1.0	6/27/17 10:26	6/29/17 17:14	EPA 6010
7439-89-6	Iron	5100		mg/kg dry	10	6/27/17 10:26	6/29/17 17:14	EPA 6010
7439-92-1	Lead	3.7		mg/kg dry	0.20	6/27/17 10:28	7/12/17 12:30	EPA 200.8
7439-95-4	Magnesium	230		mg/kg dry	25	6/27/17 10:26	6/29/17 17:14	EPA 6010
7439-96-5	Manganese	20		mg/kg dry	0.50	6/27/17 10:26	6/29/17 17:14	EPA 6010
7439-98-7	Molybdenum	1.0	U	mg/kg dry	1.0	6/27/17 10:26	6/29/17 17:14	EPA 6010
7440-02-0	Nickel	1.1		mg/kg dry	1.0	6/27/17 10:26	6/29/17 17:14	EPA 6010
7440-09-7	Potassium	100		mg/kg dry	100	6/27/17 10:26	6/29/17 17:14	EPA 6010
7782-49-2	Selenium	0.40	U	mg/kg dry	0.40	6/27/17 10:28	7/12/17 12:30	EPA 200.8
7440-22-4	Silver	0.50	U	mg/kg dry	0.50	6/27/17 10:26	6/29/17 17:14	EPA 6010
7440-23-5	Sodium	100	U	mg/kg dry	100	6/27/17 10:26	6/29/17 17:14	EPA 6010
7440-24-6	Strontium	2.0		mg/kg dry	0.50	6/27/17 10:26	6/29/17 17:14	EPA 6010
7440-28-0	Thallium	0.20	U	mg/kg dry	0.20	6/27/17 10:28	7/12/17 12:30	EPA 200.8
7440-31-5	Tin	1.5	U	mg/kg dry	1.5	6/27/17 10:26	6/29/17 17:14	EPA 6010
7440-32-6	Titanium	24		mg/kg dry	0.50	6/27/17 10:26	6/29/17 17:14	EPA 6010
7440-62-2	Vanadium	9.7		mg/kg dry	0.50	6/27/17 10:26	6/29/17 17:14	EPA 6010
7440-65-5	Yttrium	1.2		mg/kg dry	0.30	6/27/17 10:26	6/29/17 17:14	EPA 6010
7440-66-6	Zinc	3.2		mg/kg dry	1.0	6/27/17 10:26	6/29/17 17:14	EPA 6010



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D.A.R.T. Id: 17-0399

Project: 17-0399, International Paper/Baldwin Pole - Reported by Terri White

Physical Properties

Project: 17-0399, International Paper/Baldwin Pole

Sample ID: IP03

Lab ID: E172408-03

Station ID: IP03

Matrix: Surface Soil

Date Collected: 6/15/17 10:20

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	94		%	0.0	6/22/17 17:18	6/23/17 10:15	EPA 200.2



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D.A.R.T. Id: 17-0399

Project: 17-0399, International Paper/Baldwin Pole - Reported by Terri White

Total Metals

Project: 17-0399, International Paper/Baldwin Pole**Sample ID: IP04****Lab ID: E172408-04****Station ID: IP04****Matrix: Surface Soil****Date Collected: 6/15/17 10:35**

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7429-90-5	Aluminum	1500		mg/kg dry	20	6/27/17 10:26	6/29/17 17:17	EPA 6010
7440-36-0	Antimony	0.20	U	mg/kg dry	0.20	6/27/17 10:28	7/12/17 12:34	EPA 200.8
7440-38-2	Arsenic	6.1		mg/kg dry	0.20	6/27/17 10:28	7/12/17 12:34	EPA 200.8
7440-39-3	Barium	7.3		mg/kg dry	1.0	6/27/17 10:26	6/29/17 17:17	EPA 6010
7440-41-7	Beryllium	0.60	U	mg/kg dry	0.60	6/27/17 10:26	6/29/17 17:17	EPA 6010
7440-43-9	Cadmium	0.10	U	mg/kg dry	0.10	6/27/17 10:28	7/12/17 12:34	EPA 200.8
7440-70-2	Calcium	31000		mg/kg dry	50	6/27/17 10:26	6/29/17 17:17	EPA 6010
7440-47-3	Chromium	10		mg/kg dry	1.0	6/27/17 10:26	6/29/17 17:17	EPA 6010
7440-48-4	Cobalt	1.0	U	mg/kg dry	1.0	6/27/17 10:26	6/29/17 17:17	EPA 6010
7440-50-8	Copper	22		mg/kg dry	2.0	6/27/17 10:26	6/29/17 17:17	EPA 6010
7439-89-6	Iron	5700		mg/kg dry	20	6/27/17 10:26	6/29/17 17:17	EPA 6010
7439-92-1	Lead	4.4		mg/kg dry	0.20	6/27/17 10:28	7/12/17 12:34	EPA 200.8
7439-95-4	Magnesium	5500		mg/kg dry	50	6/27/17 10:26	6/29/17 17:17	EPA 6010
7439-96-5	Manganese	89		mg/kg dry	1.0	6/27/17 10:26	6/29/17 17:17	EPA 6010
7439-98-7	Molybdenum	2.0	U	mg/kg dry	2.0	6/27/17 10:26	6/29/17 17:17	EPA 6010
7440-02-0	Nickel	4.5		mg/kg dry	2.0	6/27/17 10:26	6/29/17 17:17	EPA 6010
7440-09-7	Potassium	200	U	mg/kg dry	200	6/27/17 10:26	6/29/17 17:17	EPA 6010
7782-49-2	Selenium	0.40	U	mg/kg dry	0.40	6/27/17 10:28	7/12/17 12:34	EPA 200.8
7440-22-4	Silver	1.0	U	mg/kg dry	1.0	6/27/17 10:26	6/29/17 17:17	EPA 6010
7440-23-5	Sodium	200	U	mg/kg dry	200	6/27/17 10:26	6/29/17 17:17	EPA 6010
7440-24-6	Strontium	41		mg/kg dry	1.0	6/27/17 10:26	6/29/17 17:17	EPA 6010
7440-28-0	Thallium	0.20	U	mg/kg dry	0.20	6/27/17 10:28	7/12/17 12:34	EPA 200.8
7440-31-5	Tin	3.0	U	mg/kg dry	3.0	6/27/17 10:26	6/29/17 17:17	EPA 6010
7440-32-6	Titanium	21		mg/kg dry	1.0	6/27/17 10:26	6/29/17 17:17	EPA 6010
7440-62-2	Vanadium	7.3		mg/kg dry	1.0	6/27/17 10:26	6/29/17 17:17	EPA 6010
7440-65-5	Yttrium	1.3		mg/kg dry	0.60	6/27/17 10:26	6/29/17 17:17	EPA 6010
7440-66-6	Zinc	10		mg/kg dry	2.0	6/27/17 10:26	6/29/17 17:17	EPA 6010



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Region 4 Science and Ecosystem Support Division

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D.A.R.T. Id: 17-0399

Project: 17-0399, International Paper/Baldwin Pole - Reported by Terri White

Physical Properties

Project: 17-0399, International Paper/Baldwin Pole

Sample ID: IP04

Lab ID: E172408-04

Station ID: IP04

Matrix: Surface Soil

Date Collected: 6/15/17 10:35

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	93		%	0.0	6/22/17 17:18	6/23/17 10:15	EPA 200.2



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D.A.R.T. Id: 17-0399

Project: 17-0399, International Paper/Baldwin Pole - Reported by Terri White

Total Metals

Project: 17-0399, International Paper/Baldwin Pole**Sample ID:** IP05**Lab ID:** E172408-05**Station ID:** IP05**Matrix:** Surface Soil**Date Collected:** 6/15/17 10:50

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7429-90-5	Aluminum	4900		mg/kg dry	10	6/27/17 10:26	6/29/17 17:23	EPA 6010
7440-36-0	Antimony	0.20	U	mg/kg dry	0.20	6/27/17 10:28	7/12/17 12:38	EPA 200.8
7440-38-2	Arsenic	1.4		mg/kg dry	0.20	6/27/17 10:28	7/12/17 12:38	EPA 200.8
7440-39-3	Barium	24		mg/kg dry	0.50	6/27/17 10:26	6/29/17 17:23	EPA 6010
7440-41-7	Beryllium	0.30	U	mg/kg dry	0.30	6/27/17 10:26	6/29/17 17:23	EPA 6010
7440-43-9	Cadmium	0.10	U	mg/kg dry	0.10	6/27/17 10:28	7/12/17 12:38	EPA 200.8
7440-70-2	Calcium	350		mg/kg dry	25	6/27/17 10:26	6/29/17 17:23	EPA 6010
7440-47-3	Chromium	7.5		mg/kg dry	0.50	6/27/17 10:26	6/29/17 17:23	EPA 6010
7440-48-4	Cobalt	1.7		mg/kg dry	0.50	6/27/17 10:26	6/29/17 17:23	EPA 6010
7440-50-8	Copper	5.2		mg/kg dry	1.0	6/27/17 10:26	6/29/17 17:23	EPA 6010
7439-89-6	Iron	5600		mg/kg dry	10	6/27/17 10:26	6/29/17 17:23	EPA 6010
7439-92-1	Lead	12		mg/kg dry	0.20	6/27/17 10:28	7/12/17 12:38	EPA 200.8
7439-95-4	Magnesium	150		mg/kg dry	25	6/27/17 10:26	6/29/17 17:23	EPA 6010
7439-96-5	Manganese	310		mg/kg dry	0.50	6/27/17 10:26	6/29/17 17:23	EPA 6010
7439-98-7	Molybdenum	1.0	U	mg/kg dry	1.0	6/27/17 10:26	6/29/17 17:23	EPA 6010
7440-02-0	Nickel	1.8		mg/kg dry	1.0	6/27/17 10:26	6/29/17 17:23	EPA 6010
7440-09-7	Potassium	100	U	mg/kg dry	100	6/27/17 10:26	6/29/17 17:23	EPA 6010
7782-49-2	Selenium	0.40	U	mg/kg dry	0.40	6/27/17 10:28	7/12/17 12:38	EPA 200.8
7440-22-4	Silver	0.50	U	mg/kg dry	0.50	6/27/17 10:26	6/29/17 17:23	EPA 6010
7440-23-5	Sodium	100	U	mg/kg dry	100	6/27/17 10:26	6/29/17 17:23	EPA 6010
7440-24-6	Strontium	2.1		mg/kg dry	0.50	6/27/17 10:26	6/29/17 17:23	EPA 6010
7440-28-0	Thallium	0.20	U	mg/kg dry	0.20	6/27/17 10:28	7/12/17 12:38	EPA 200.8
7440-31-5	Tin	1.5	U	mg/kg dry	1.5	6/27/17 10:26	6/29/17 17:23	EPA 6010
7440-32-6	Titanium	42		mg/kg dry	0.50	6/27/17 10:26	6/29/17 17:23	EPA 6010
7440-62-2	Vanadium	12		mg/kg dry	0.50	6/27/17 10:26	6/29/17 17:23	EPA 6010
7440-65-5	Yttrium	6.8		mg/kg dry	0.30	6/27/17 10:26	6/29/17 17:23	EPA 6010
7440-66-6	Zinc	7.8		mg/kg dry	1.0	6/27/17 10:26	6/29/17 17:23	EPA 6010



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D.A.R.T. Id: 17-0399

Project: 17-0399, International Paper/Baldwin Pole - Reported by Terri White

Physical Properties

Project: 17-0399, International Paper/Baldwin Pole

Sample ID: IP05

Lab ID: E172408-05

Station ID: IP05

Matrix: Surface Soil

Date Collected: 6/15/17 10:50

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	83		%	0.0	6/22/17 17:18	6/23/17 10:15	EPA 200.2



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Project: 17-0399, International Paper/Baldwin Pole - Reported by Terri White

Total Metals (TMTL) - Quality Control**US-EPA, Region 4, SESD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD RPD	RPD Limit	Notes
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Batch 1706078 - M 200.2 Metals Soil**Blank (1706078-BLK1)**

Prepared: 06/27/17 Analyzed: 06/29/17

EPA 6010

Aluminum	U	10	mg/kg dry							U
Barium	U	0.50	"							U
Beryllium	U	0.30	"							U
Calcium	U	25	"							U
Chromium	U	0.50	"							U
Cobalt	U	0.50	"							U
Copper	U	1.0	"							U
Iron	U	10	"							U
Magnesium	U	25	"							U
Manganese	U	0.50	"							U
Molybdenum	U	1.0	"							U
Nickel	U	1.0	"							U
Potassium	U	100	"							U
Silver	U	0.50	"							U
Sodium	U	100	"							U
Strontium	U	0.50	"							U
Tin	U	1.5	"							U
Titanium	U	0.50	"							U
Vanadium	U	0.50	"							U
Yttrium	U	0.30	"							U
Zinc	U	1.0	"							U

Blank (1706078-BLK2)

Prepared: 06/27/17 Analyzed: 06/29/17

EPA 6010

Aluminum	U	10	mg/kg dry							U
Barium	U	0.50	"							U
Beryllium	U	0.30	"							U
Calcium	U	25	"							U
Chromium	U	0.50	"							U
Cobalt	U	0.50	"							U
Copper	U	1.0	"							U
Iron	U	10	"							U
Magnesium	U	25	"							U
Manganese	U	0.50	"							U
Molybdenum	U	1.0	"							U
Nickel	U	1.0	"							U
Potassium	U	100	"							U
Silver	U	0.50	"							U
Sodium	U	100	"							U



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division

980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 17-0399

Project: 17-0399, International Paper/Baldwin Pole - Reported by Terri White

Total Metals (TMTL) - Quality Control**US-EPA, Region 4, SESD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD RPD	RPD Limit	Notes
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Batch 1706078 - M 200.2 Metals Soil**Blank (1706078-BLK2)**

Prepared: 06/27/17 Analyzed: 06/29/17

Strontium	U	0.50	mg/kg dry							U
Tin	U	1.5	"							U
Titanium	U	0.50	"							U
Vanadium	U	0.50	"							U
Yttrium	U	0.30	"							U
Zinc	U	1.0	"							U

LCS (1706078-BS1)

Prepared: 06/27/17 Analyzed: 06/29/17

EPA 6010

Aluminum	490.34	10	mg/kg dry	500.00	98.1	85-115
Barium	47.811	0.50	"	50.000	95.6	85-115
Beryllium	19.751	0.30	"	20.000	98.8	85-115
Calcium	496.18	25	"	500.00	99.2	85-115
Chromium	47.479	0.50	"	50.000	95.0	85-115
Cobalt	47.285	0.50	"	50.000	94.6	85-115
Copper	28.994	1.0	"	30.000	96.6	85-115
Iron	506.03	10	"	500.00	101	85-115
Magnesium	498.26	25	"	500.00	99.7	85-115
Manganese	488.90	0.50	"	500.00	97.8	85-115
Molybdenum	30.204	1.0	"	30.000	101	85-115
Nickel	75.915	1.0	"	80.000	94.9	85-115
Potassium	970.21	100	"	1000.0	97.0	85-115
Silver	9.3317	0.50	"	10.000	93.3	85-115
Sodium	951.55	100	"	1000.0	95.2	85-115
Strontium	38.472	0.50	"	40.000	96.2	85-115
Tin	97.337	1.5	"	100.00	97.3	85-115
Titanium	49.502	0.50	"	50.000	99.0	85-115
Vanadium	39.052	0.50	"	40.000	97.6	85-115
Yttrium	29.451	0.30	"	30.000	98.2	85-115
Zinc	97.808	1.0	"	100.00	97.8	85-115



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D.A.R.T. Id: 17-0399

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Total Metals (TMTL) - Quality Control**US-EPA, Region 4, SESD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	Limit Notes
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Batch 1706078 - M 200.2 Metals Soil**Matrix Spike (1706078-MS1)****Source: E172408-01**

Prepared: 06/27/17 Analyzed: 06/29/17

EPA 6010

Aluminum	2349.8	10	mg/kg dry	499.20	1890.2	92.1	75-125		
Barium	51.573	0.50	"	49.920	5.8778	91.5	75-125		
Beryllium	19.676	0.30	"	19.968	U	98.5	75-125		
Calcium	625.78	25	"	499.20	658.64	-6.58	75-125		QM-1
Chromium	213.79	0.50	"	49.920	172.10	83.5	75-125		
Cobalt	46.794	0.50	"	49.920	0.28235	93.2	75-125		
Copper	98.206	1.0	"	29.952	73.476	82.6	75-125		
Iron	4501.3	10	"	499.20	4504.1	-0.567	75-125		QM-1
Magnesium	533.82	25	"	499.20	51.052	96.7	75-125		
Manganese	491.94	0.50	"	499.20	13.485	95.8	75-125		
Molybdenum	26.121	1.0	"	29.952	0.15787	86.7	75-125		
Nickel	75.058	1.0	"	79.872	0.91199	92.8	75-125		
Potassium	1010.5	100	"	998.40	58.241	95.4	75-125		
Silver	9.3345	0.50	"	9.9840	U	93.5	75-125		
Sodium	949.43	100	"	998.40	U	95.1	75-125		
Strontium	38.477	0.50	"	39.936	1.3772	92.9	75-125		
Tin	94.105	1.5	"	99.840	0.63645	93.6	75-125		
Titanium	61.731	0.50	"	49.920	19.426	84.7	75-125		
Vanadium	45.695	0.50	"	39.936	7.7472	95.0	75-125		
Yttrium	29.930	0.30	"	29.952	0.79403	97.3	75-125		
Zinc	98.750	1.0	"	99.840	2.7920	96.1	75-125		

Matrix Spike Dup (1706078-MSD1)**Source: E172408-01**

Prepared: 06/27/17 Analyzed: 06/29/17

EPA 6010

Aluminum	2248.7	9.9	mg/kg dry	493.19	1890.2	72.7	75-125	4.40	20	QM-1
Barium	51.732	0.49	"	49.319	5.8778	93.0	75-125	0.308	20	
Beryllium	19.490	0.30	"	19.728	U	98.8	75-125	0.949	20	
Calcium	624.36	25	"	493.19	658.64	-6.95	75-125	0.228	20	QM-1
Chromium	222.38	0.49	"	49.319	172.10	102	75-125	3.94	20	
Cobalt	46.464	0.49	"	49.319	0.28235	93.6	75-125	0.709	20	
Copper	101.91	0.99	"	29.592	73.476	96.1	75-125	3.71	20	
Iron	4241.1	9.9	"	493.19	4504.1	-53.3	75-125	5.95	20	QM-1
Magnesium	531.61	25	"	493.19	51.052	97.4	75-125	0.415	20	
Manganese	490.42	0.49	"	493.19	13.485	96.7	75-125	0.309	20	
Molybdenum	25.331	0.99	"	29.592	0.15787	85.1	75-125	3.07	20	
Nickel	74.860	0.99	"	78.911	0.91199	93.7	75-125	0.264	20	
Potassium	1006.0	99	"	986.39	58.241	96.1	75-125	0.440	20	
Silver	9.2308	0.49	"	9.8639	U	93.6	75-125	1.12	20	
Sodium	948.53	99	"	986.39	U	96.2	75-125	0.0943	20	



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980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 17-0399

Project: 17-0399, International Paper/Baldwin Pole - Reported by Terri White

Total Metals (TMTL) - Quality Control**US-EPA, Region 4, SESD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	RPD Limit	Notes
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Batch 1706078 - M 200.2 Metals Soil

Matrix Spike Dup (1706078-MSD1)	Source: E172408-01			Prepared: 06/27/17 Analyzed: 06/29/17						
Strontium	38.405	0.49	mg/kg dry	39.456	1.3772	93.8	75-125	0.185	20	
Tin	93.239	1.5	"	98.639	0.63645	93.9	75-125	0.924	20	
Titanium	59.208	0.49	"	49.319	19.426	80.7	75-125	4.17	20	
Vanadium	45.163	0.49	"	39.456	7.7472	94.8	75-125	1.17	20	
Yttrium	29.678	0.30	"	29.592	0.79403	97.6	75-125	0.847	20	
Zinc	98.245	0.99	"	98.639	2.7920	96.8	75-125	0.513	20	

MRL Verification (1706078-PS1)

Prepared: 06/27/17 Analyzed: 06/29/17

EPA 6010	Prepared: 06/27/17 Analyzed: 06/29/17						
Aluminum	10.570	10	mg/kg dry	10.000	106	70-130	MRL-3
Barium	0.49558	0.50	"	0.50000	99.1	70-130	MRL-3, U
Beryllium	0.29557	0.30	"	0.30000	98.5	70-130	MRL-3, U
Calcium	24.551	25	"	25.000	98.2	70-130	MRL-3, U
Chromium	0.51924	0.50	"	0.50000	104	70-130	MRL-3
Cobalt	0.48974	0.50	"	0.50000	97.9	70-130	MRL-3, U
Copper	0.93847	1.0	"	1.0000	93.8	70-130	MRL-3, U
Iron	10.176	10	"	10.000	102	70-130	MRL-3
Magnesium	25.132	25	"	25.000	101	70-130	MRL-3
Manganese	0.49791	0.50	"	0.50000	99.6	70-130	MRL-3, U
Molybdenum	0.99674	1.0	"	1.0000	99.7	70-130	MRL-3, U
Nickel	0.99078	1.0	"	1.0000	99.1	70-130	MRL-3, U
Potassium	94.779	100	"	100.00	94.8	70-130	MRL-3, U
Silver	0.45083	0.50	"	0.50000	90.2	70-130	MRL-3, U
Sodium	105.67	100	"	100.00	106	70-130	MRL-3
Strontium	0.48879	0.50	"	0.50000	97.8	70-130	MRL-3, U
Tin	1.5607	1.5	"	1.5000	104	70-130	MRL-3
Titanium	0.54651	0.50	"	0.50000	109	70-130	MRL-3
Vanadium	0.46285	0.50	"	0.50000	92.6	70-130	MRL-3, U
Yttrium	0.29868	0.30	"	0.30000	99.6	70-130	MRL-3, U
Zinc	0.96347	1.0	"	1.0000	96.3	70-130	MRL-3, U



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Project: 17-0399, International Paper/Baldwin Pole - Reported by Terri White

Total Metals (TMTL) - Quality Control**US-EPA, Region 4, SESD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD RPD	RPD Limit	Notes
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Batch 1706080 - M 200.2 Metals Soil**Blank (1706080-BLK1)**

Prepared: 06/27/17 Analyzed: 07/12/17

EPA 200.8

Antimony	U	0.10	mg/kg dry							U
Arsenic	U	0.10	"							U
Cadmium	U	0.050	"							U
Lead	U	0.10	"							U
Selenium	U	0.20	"							U
Silver	U	0.050	"							U
Thallium	U	0.10	"							U

Blank (1706080-BLK2)

Prepared: 06/27/17 Analyzed: 07/12/17

EPA 200.8

Antimony	U	0.10	mg/kg dry							U
Arsenic	U	0.10	"							U
Cadmium	U	0.050	"							U
Lead	U	0.10	"							U
Selenium	U	0.20	"							U
Silver	U	0.050	"							U
Thallium	U	0.10	"							U

LCS (1706080-BS1)

Prepared: 06/27/17 Analyzed: 07/12/17

EPA 200.8

Antimony	97.121	1.2	mg/kg dry	100.00	97.1	85-115
Arsenic	48.026	1.2	"	50.000	96.1	85-115
Cadmium	19.122	0.62	"	20.000	95.6	85-115
Lead	99.133	1.2	"	100.00	99.1	85-115
Selenium	101.03	2.5	"	100.00	101	85-115
Silver	9.8725	0.62	"	10.000	98.7	85-115
Thallium	19.371	1.2	"	20.000	96.9	85-115

Matrix Spike (1706080-MS1)

Source: E172408-01

Prepared: 06/27/17 Analyzed: 07/12/17

EPA 200.8

Antimony	51.975	1.2	mg/kg dry	99.840	0.14332	52.1	70-130	QM-1
Arsenic	108.73	1.2	"	49.920	52.285	113	70-130	
Cadmium	19.343	0.62	"	19.968	U	96.9	70-130	
Lead	99.565	1.2	"	99.840	2.6537	97.1	70-130	
Selenium	83.766	2.5	"	99.840	U	83.9	70-130	
Silver	9.7309	0.62	"	9.9840	U	97.5	70-130	
Thallium	19.438	1.2	"	19.968	U	97.3	70-130	



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Project: 17-0399, International Paper/Baldwin Pole - Reported by Terri White

Total Metals (TMTL) - Quality Control**US-EPA, Region 4, SESD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	RPD Limit	Notes
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Batch 1706080 - M 200.2 Metals Soil**Matrix Spike Dup (1706080-MSD1)****Source: E172408-01**

Prepared: 06/27/17 Analyzed: 07/12/17

EPA 200.8

Antimony	52.184	1.2	mg/kg dry	98.639	0.14332	52.9	70-130	0.401	20	QM-1
Arsenic	105.96	1.2	"	49.319	52.285	109	70-130	2.58	20	
Cadmium	18.869	0.62	"	19.728	U	95.6	70-130	2.48	20	
Lead	99.439	1.2	"	98.639	2.6537	98.1	70-130	0.127	20	
Selenium	83.091	2.5	"	98.639	U	84.2	70-130	0.809	20	
Silver	9.8524	0.62	"	9.8639	U	99.9	70-130	1.24	20	
Thallium	19.363	1.2	"	19.728	U	98.2	70-130	0.388	20	

MRL Verification (1706080-PS1)

Prepared: 06/27/17 Analyzed: 07/12/17

EPA 200.8

Antimony	0.049369	0.10	mg/kg dry	0.050000		98.7	65-135		MRL-3, U
Arsenic	0.10932	0.10	"	0.10000		109	65-135		MRL-3
Cadmium	0.051796	0.050	"	0.050000		104	65-135		MRL-3
Lead	0.10689	0.10	"	0.10000		107	65-135		MRL-3
Selenium	0.21999	0.20	"	0.20000		110	65-135		MRL-3
Silver	0.049741	0.050	"	0.050000		99.5	65-135		MRL-3, U
Thallium	0.052065	0.10	"	0.050000		104	65-135		MRL-3, U



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Physical Properties (PHYSP) - Quality Control

US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD RPD	RPD Limit	Notes
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Batch 1706071 - M % Solids

Duplicate (1706071-DUP1)

Source: E172408-04

Prepared: 06/22/17 Analyzed: 06/23/17

EPA 200.2

% Solids	93.854	0.0	%	93.096	0.811	10
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Project: 17-0399, International Paper/Baldwin Pole - Reported by Terri White

Notes and Definitions for QC Samples

- U The analyte was not detected at or above the reporting limit.
- MRL-3 MRL verification for Soil matrix
- QM-1 Matrix Spike Recovery less than method control limits



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D.A.R.T. Id: 17-0399

Project: 17-0399, International Paper/Baldwin Pole - Reported by Diana Burdette

July 17, 2017

4SESD-ASB

MEMORANDUM

SUBJECT: FINAL Analytical Report

Project: 17-0399, International Paper/Baldwin Pole

Resource Conservation and Recovery Act

FROM: Diana Burdette

OCS Analyst

THRU: Jeffrey Hendel, Chief

ASB Organic Chemistry Section

TO: Arthur Masters

Attached are the final results for the analytical groups listed below. These analyses were performed in accordance with the Analytical Support Branch's (ASB) Laboratory Operations and Quality Assurance Manual (ASB LOQAM) found at www.epa.gov/region4/sestd/asbsop. Any unique project data quality objectives specified in writing by the data requestor have also been incorporated into the data unless otherwise noted in the Report Narrative. Chemistry data have been verified based on the ASB LOQAM specifications and have been qualified by this laboratory if the applicable quality control criteria were not met. Verification is defined in Section 5.2 of the ASB LOQAM. For a listing of specific data qualifiers and explanations, please refer to the Data Qualifier Definitions included in this report. The reported results are accurate within the limits of the method(s) and are representative only of the samples as received by the laboratory.

Analyses Included in this report:

Method Used:

Accreditations:

Semi Volatile Organics (SVOA)

Semivolatile organic compounds

EPA 8270D (Soil)

ISO



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

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D.A.R.T. Id: 17-0399

Project: 17-0399, International Paper/Baldwin Pole - Reported by Diana Burdette

Sample Disposal Policy

Due to limited space for long term sample storage, ASB's policy is to dispose of samples on a periodic schedule. Air samples collected in summa canisters will be disposed of 30 days following the issuance of this report. All other sample media including original samples, sample extracts and or digestates will be disposed of, in accordance with applicable regulations, 60 days from the date of this report.

This sample disposal policy does not apply to criminal samples which are held until the laboratory is notified by the criminal investigators that case development and litigation are complete.

These samples may be held in the laboratory's custody for a longer period of time. If samples require storage beyond the 60-day period, please contact the Sample Control Coordinator by e-mail at

R4SampleCustody@epa.gov.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

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D.A.R.T. Id: 17-0399

Project: 17-0399, International Paper/Baldwin Pole - Reported by Diana Burdette

SAMPLES INCLUDED IN THIS REPORT

Project: 17-0399, International Paper/Baldwin Pole

Sample ID	Laboratory ID	Matrix	Date Collected	Date Received
IP01	E172408-01	Surface Soil	6/15/17 09:40	6/16/17 12:40
IP02	E172408-02	Surface Soil	6/15/17 10:00	6/16/17 12:40
IP03	E172408-03	Surface Soil	6/15/17 10:20	6/16/17 12:40
IP04	E172408-04	Surface Soil	6/15/17 10:35	6/16/17 12:40
IP05	E172408-05	Surface Soil	6/15/17 10:50	6/16/17 12:40



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Region 4 Science and Ecosystem Support Division

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D.A.R.T. Id: 17-0399

Project: 17-0399, International Paper/Baldwin Pole - Reported by Diana Burdette

DATA QUALIFIER DEFINITIONS

U	The analyte was not detected at or above the reporting limit.
J	The identification of the analyte is acceptable; the reported value is an estimate.
N	There is presumptive evidence that the analyte is present; the analyte is reported as a tentative identification.
NJ	Presumptive evidence that analyte is present; reported as a tentative identification with an estimated value.
Q-2	Result greater than MDL but less than MRL.
OM-1	Matrix Spike Recovery less than method control limits
OM-3	Matrix Spike Precision outside method control limits

ACRONYMS AND ABBREVIATIONS

CAS	Chemical Abstracts Service Note: Analytes with no known CAS identifiers have been assigned codes beginning with "E", the EPA ID as assigned by the EPA Substance Registry System (www.epa.gov/srs), or beginning with "R4-", a unique identifier assigned by the EPA Region 4 laboratory.
MDL	Method Detection Limit - The minimum concentration of a substance (an analyte) that can be measured and reported with a 99% confidence that the analyte concentration is greater than zero.
MRL	Minimum Reporting Limit - Analyte concentration that corresponds to the lowest demonstrated level of acceptable quantitation. The MRL is sample-specific and accounts for preparation weights and volumes, dilutions, and moisture content of soil/sediments.
TIC	Tentatively Identified Compound - An analyte identified based on a match with the instrument software's mass spectral library. A calibration standard has not been analyzed to confirm the compound's identification or the estimated concentration reported.

ACCREDITATIONS:

ISO	ASB is accredited by ISO/IEC 17025, including an amplification for forensic accreditation through ANSI-ASQ National Accreditation Board.
	Refer to the certificate and scope of accreditation AT-1644 at: http://www.epa.gov/aboutepa/about-region-4s-science-and-ecosystem-support-division-sesd

NR	The EPA Region 4 Laboratory has not requested accreditation for this test.
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980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 17-0399

Project: 17-0399, International Paper/Baldwin Pole - Reported by Diana Burdette

Semi Volatile Organics

Project: 17-0399, International Paper/Baldwin Pole**Sample ID: IP01****Lab ID: E172408-01****Station ID: IP01****Matrix: Surface Soil****Date Collected: 6/15/17 9:40**

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
1319-77-3	(3-and/or 4-)Methylphenol	370	U	ug/kg dry	370	6/21/17 7:45	7/06/17 19:14	EPA 8270D
92-52-4	1,1-Biphenyl	74	U	ug/kg dry	74	6/21/17 7:45	7/06/17 19:14	EPA 8270D
123-91-1	1,4-Dioxane	74	U	ug/kg dry	74	6/21/17 7:45	7/06/17 19:14	EPA 8270D
90-12-0	1-Methylnaphthalene	74	U	ug/kg dry	74	6/21/17 7:45	7/06/17 19:14	EPA 8270D
58-90-2	2,3,4,6-Tetrachlorophenol	370	U	ug/kg dry	370	6/21/17 7:45	7/06/17 19:14	EPA 8270D
95-95-4	2,4,5-Trichlorophenol	370	U	ug/kg dry	370	6/21/17 7:45	7/06/17 19:14	EPA 8270D
88-06-2	2,4,6-Trichlorophenol	370	U	ug/kg dry	370	6/21/17 7:45	7/06/17 19:14	EPA 8270D
120-83-2	2,4-Dichlorophenol	370	U	ug/kg dry	370	6/21/17 7:45	7/06/17 19:14	EPA 8270D
105-67-9	2,4-Dimethylphenol	370	U	ug/kg dry	370	6/21/17 7:45	7/06/17 19:14	EPA 8270D
51-28-5	2,4-Dinitrophenol	740	U	ug/kg dry	740	6/21/17 7:45	7/06/17 19:14	EPA 8270D
121-14-2	2,4-Dinitrotoluene	370	U	ug/kg dry	370	6/21/17 7:45	7/06/17 19:14	EPA 8270D
606-20-2	2,6-Dinitrotoluene	370	U	ug/kg dry	370	6/21/17 7:45	7/06/17 19:14	EPA 8270D
91-58-7	2-Chloronaphthalene	370	U	ug/kg dry	370	6/21/17 7:45	7/06/17 19:14	EPA 8270D
95-57-8	2-Chlorophenol	370	U	ug/kg dry	370	6/21/17 7:45	7/06/17 19:14	EPA 8270D
534-52-1	2-Methyl-4,6-dinitrophenol	370	U	ug/kg dry	370	6/21/17 7:45	7/06/17 19:14	EPA 8270D
91-57-6	2-Methylnaphthalene	74	U	ug/kg dry	74	6/21/17 7:45	7/06/17 19:14	EPA 8270D
95-48-7	2-Methylphenol	370	U	ug/kg dry	370	6/21/17 7:45	7/06/17 19:14	EPA 8270D
88-74-4	2-Nitroaniline	370	U	ug/kg dry	370	6/21/17 7:45	7/06/17 19:14	EPA 8270D
88-75-5	2-Nitrophenol	370	U	ug/kg dry	370	6/21/17 7:45	7/06/17 19:14	EPA 8270D
91-94-1	3,3'-Dichlorobenzidine	370	U	ug/kg dry	370	6/21/17 7:45	7/06/17 19:14	EPA 8270D
99-09-2	3-Nitroaniline	370	U	ug/kg dry	370	6/21/17 7:45	7/06/17 19:14	EPA 8270D
101-55-3	4-Bromophenyl phenyl ether	370	U	ug/kg dry	370	6/21/17 7:45	7/06/17 19:14	EPA 8270D
59-50-7	4-Chloro-3-methylphenol	370	U	ug/kg dry	370	6/21/17 7:45	7/06/17 19:14	EPA 8270D
106-47-8	4-Chloroaniline	370	U	ug/kg dry	370	6/21/17 7:45	7/06/17 19:14	EPA 8270D
7005-72-3	4-Chlorophenyl phenyl ether	370	U	ug/kg dry	370	6/21/17 7:45	7/06/17 19:14	EPA 8270D
100-01-6	4-Nitroaniline	370	U	ug/kg dry	370	6/21/17 7:45	7/06/17 19:14	EPA 8270D
100-02-7	4-Nitrophenol	370	U	ug/kg dry	370	6/21/17 7:45	7/06/17 19:14	EPA 8270D
83-32-9	Acenaphthene	74	U	ug/kg dry	74	6/21/17 7:45	7/06/17 19:14	EPA 8270D



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division

980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 17-0399

Project: 17-0399, International Paper/Baldwin Pole - Reported by Diana Burdette

Semi Volatile Organics

Project: 17-0399, International Paper/Baldwin Pole**Sample ID: IP01****Lab ID: E172408-01****Station ID: IP01****Matrix: Surface Soil****Date Collected: 6/15/17 9:40**

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
208-96-8	Acenaphthylene	74	U	ug/kg dry	74	6/21/17 7:45	7/06/17 19:14	EPA 8270D
98-86-2	Acetophenone	370	U	ug/kg dry	370	6/21/17 7:45	7/06/17 19:14	EPA 8270D
120-12-7	Anthracene	74	U	ug/kg dry	74	6/21/17 7:45	7/06/17 19:14	EPA 8270D
1912-24-9	Atrazine	370	U	ug/kg dry	370	6/21/17 7:45	7/06/17 19:14	EPA 8270D
100-52-7	Benzaldehyde	370	U	ug/kg dry	370	6/21/17 7:45	7/06/17 19:14	EPA 8270D
56-55-3	Benzo(a)anthracene	74	U	ug/kg dry	74	6/21/17 7:45	7/06/17 19:14	EPA 8270D
50-32-8	Benzo(a)pyrene	74	U	ug/kg dry	74	6/21/17 7:45	7/06/17 19:14	EPA 8270D
205-99-2	Benzo(b)fluoranthene	33	J, Q-2	ug/kg dry	74	6/21/17 7:45	7/06/17 19:14	EPA 8270D
191-24-2	Benzo(g,h,i)perylene	74	U	ug/kg dry	74	6/21/17 7:45	7/06/17 19:14	EPA 8270D
207-08-9	Benzo(k)fluoranthene	74	U	ug/kg dry	74	6/21/17 7:45	7/06/17 19:14	EPA 8270D
100-51-6	Benzyl alcohol	420		ug/kg dry	370	6/21/17 7:45	7/06/17 19:14	EPA 8270D
85-68-7	Benzyl butyl phthalate	370	U	ug/kg dry	370	6/21/17 7:45	7/06/17 19:14	EPA 8270D
108-60-1	Bis(2-chloro-1-methylethyl) ether	370	U	ug/kg dry	370	6/21/17 7:45	7/06/17 19:14	EPA 8270D
111-91-1	Bis(2-chloroethoxy)methane	370	U	ug/kg dry	370	6/21/17 7:45	7/06/17 19:14	EPA 8270D
111-44-4	bis(2-Chloroethyl) Ether	370	U	ug/kg dry	370	6/21/17 7:45	7/06/17 19:14	EPA 8270D
117-81-7	Bis(2-ethylhexyl) phthalate	370	U	ug/kg dry	370	6/21/17 7:45	7/06/17 19:14	EPA 8270D
105-60-2	Caprolactam	370	U	ug/kg dry	370	6/21/17 7:45	7/06/17 19:14	EPA 8270D
86-74-8	Carbazole	74	U	ug/kg dry	74	6/21/17 7:45	7/06/17 19:14	EPA 8270D
218-01-9	Chrysene	31	J, Q-2	ug/kg dry	74	6/21/17 7:45	7/06/17 19:14	EPA 8270D
53-70-3	Dibenz(a,h)anthracene	74	U	ug/kg dry	74	6/21/17 7:45	7/06/17 19:14	EPA 8270D
132-64-9	Dibenzofuran	74	U	ug/kg dry	74	6/21/17 7:45	7/06/17 19:14	EPA 8270D
84-66-2	Diethyl phthalate	370	U	ug/kg dry	370	6/21/17 7:45	7/06/17 19:14	EPA 8270D
131-11-3	Dimethyl phthalate	370	U	ug/kg dry	370	6/21/17 7:45	7/06/17 19:14	EPA 8270D
84-74-2	Di-n-butylphthalate	370	U	ug/kg dry	370	6/21/17 7:45	7/06/17 19:14	EPA 8270D
117-84-0	Di-n-octylphthalate	370	U	ug/kg dry	370	6/21/17 7:45	7/06/17 19:14	EPA 8270D
206-44-0	Fluoranthene	74	U	ug/kg dry	74	6/21/17 7:45	7/06/17 19:14	EPA 8270D
86-73-7	Fluorene	74	U	ug/kg dry	74	6/21/17 7:45	7/06/17 19:14	EPA 8270D
118-74-1	Hexachlorobenzene (HCB)	370	U	ug/kg dry	370	6/21/17 7:45	7/06/17 19:14	EPA 8270D
77-47-4	Hexachlorocyclopentadiene (HCCP)	370	U	ug/kg dry	370	6/21/17 7:45	7/06/17 19:14	EPA 8270D



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division

980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 17-0399

Project: 17-0399, International Paper/Baldwin Pole - Reported by Diana Burdette

Semi Volatile Organics

Project: 17-0399, International Paper/Baldwin Pole**Sample ID:** IP01**Lab ID:** E172408-01**Station ID:** IP01**Matrix:** Surface Soil**Date Collected:** 6/15/17 9:40

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
67-72-1	Hexachloroethane	370	U	ug/kg dry	370	6/21/17 7:45	7/06/17 19:14	EPA 8270D
193-39-5	Indeno (1,2,3-cd) pyrene	74	U	ug/kg dry	74	6/21/17 7:45	7/06/17 19:14	EPA 8270D
78-59-1	Isophorone	370	U	ug/kg dry	370	6/21/17 7:45	7/06/17 19:14	EPA 8270D
91-20-3	Naphthalene	74	U	ug/kg dry	74	6/21/17 7:45	7/06/17 19:14	EPA 8270D
98-95-3	Nitrobenzene	370	U	ug/kg dry	370	6/21/17 7:45	7/06/17 19:14	EPA 8270D
621-64-7	n-Nitroso di-n-Propylamine	370	U	ug/kg dry	370	6/21/17 7:45	7/06/17 19:14	EPA 8270D
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	370	U	ug/kg dry	370	6/21/17 7:45	7/06/17 19:14	EPA 8270D
87-86-5	Pentachlorophenol	290	J, Q-2	ug/kg dry	370	6/21/17 7:45	7/06/17 19:14	EPA 8270D
85-01-8	Phenanthrene	74	U	ug/kg dry	74	6/21/17 7:45	7/06/17 19:14	EPA 8270D
108-95-2	Phenol	370	U	ug/kg dry	370	6/21/17 7:45	7/06/17 19:14	EPA 8270D
129-00-0	Pyrene	74	U	ug/kg dry	74	6/21/17 7:45	7/06/17 19:14	EPA 8270D
Tentatively Identified Compounds:								
R4-0000	Tentatively Identified Compounds	400	U	ug/kg dry	400	6/21/17 7:45	7/06/17 19:14	EPA 8270D



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Region 4 Science and Ecosystem Support Division

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D.A.R.T. Id: 17-0399

Project: 17-0399, International Paper/Baldwin Pole - Reported by Diana Burdette

Semi Volatile Organics

Project: 17-0399, International Paper/Baldwin Pole**Sample ID: IP02****Lab ID: E172408-02****Station ID: IP02****Matrix: Surface Soil****Date Collected: 6/15/17 10:00**

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
1319-77-3	(3-and/or 4-)Methylphenol	380	U	ug/kg dry	380	6/21/17 7:45	7/06/17 19:46	EPA 8270D
92-52-4	1,1-Biphenyl	77	U	ug/kg dry	77	6/21/17 7:45	7/06/17 19:46	EPA 8270D
123-91-1	1,4-Dioxane	77	U	ug/kg dry	77	6/21/17 7:45	7/06/17 19:46	EPA 8270D
90-12-0	1-Methylnaphthalene	77	U	ug/kg dry	77	6/21/17 7:45	7/06/17 19:46	EPA 8270D
58-90-2	2,3,4,6-Tetrachlorophenol	380	U	ug/kg dry	380	6/21/17 7:45	7/06/17 19:46	EPA 8270D
95-95-4	2,4,5-Trichlorophenol	380	U	ug/kg dry	380	6/21/17 7:45	7/06/17 19:46	EPA 8270D
88-06-2	2,4,6-Trichlorophenol	380	U	ug/kg dry	380	6/21/17 7:45	7/06/17 19:46	EPA 8270D
120-83-2	2,4-Dichlorophenol	380	U	ug/kg dry	380	6/21/17 7:45	7/06/17 19:46	EPA 8270D
105-67-9	2,4-Dimethylphenol	380	U	ug/kg dry	380	6/21/17 7:45	7/06/17 19:46	EPA 8270D
51-28-5	2,4-Dinitrophenol	770	U	ug/kg dry	770	6/21/17 7:45	7/06/17 19:46	EPA 8270D
121-14-2	2,4-Dinitrotoluene	380	U	ug/kg dry	380	6/21/17 7:45	7/06/17 19:46	EPA 8270D
606-20-2	2,6-Dinitrotoluene	380	U	ug/kg dry	380	6/21/17 7:45	7/06/17 19:46	EPA 8270D
91-58-7	2-Chloronaphthalene	380	U	ug/kg dry	380	6/21/17 7:45	7/06/17 19:46	EPA 8270D
95-57-8	2-Chlorophenol	380	U	ug/kg dry	380	6/21/17 7:45	7/06/17 19:46	EPA 8270D
534-52-1	2-Methyl-4,6-dinitrophenol	380	U	ug/kg dry	380	6/21/17 7:45	7/06/17 19:46	EPA 8270D
91-57-6	2-Methylnaphthalene	77	U	ug/kg dry	77	6/21/17 7:45	7/06/17 19:46	EPA 8270D
95-48-7	2-Methylphenol	380	U	ug/kg dry	380	6/21/17 7:45	7/06/17 19:46	EPA 8270D
88-74-4	2-Nitroaniline	380	U	ug/kg dry	380	6/21/17 7:45	7/06/17 19:46	EPA 8270D
88-75-5	2-Nitrophenol	380	U	ug/kg dry	380	6/21/17 7:45	7/06/17 19:46	EPA 8270D
91-94-1	3,3'-Dichlorobenzidine	380	U	ug/kg dry	380	6/21/17 7:45	7/06/17 19:46	EPA 8270D
99-09-2	3-Nitroaniline	380	U	ug/kg dry	380	6/21/17 7:45	7/06/17 19:46	EPA 8270D
101-55-3	4-Bromophenyl phenyl ether	380	U	ug/kg dry	380	6/21/17 7:45	7/06/17 19:46	EPA 8270D
59-50-7	4-Chloro-3-methylphenol	380	U	ug/kg dry	380	6/21/17 7:45	7/06/17 19:46	EPA 8270D
106-47-8	4-Chloroaniline	380	U	ug/kg dry	380	6/21/17 7:45	7/06/17 19:46	EPA 8270D
7005-72-3	4-Chlorophenyl phenyl ether	380	U	ug/kg dry	380	6/21/17 7:45	7/06/17 19:46	EPA 8270D
100-01-6	4-Nitroaniline	380	U	ug/kg dry	380	6/21/17 7:45	7/06/17 19:46	EPA 8270D
100-02-7	4-Nitrophenol	380	U	ug/kg dry	380	6/21/17 7:45	7/06/17 19:46	EPA 8270D
83-32-9	Acenaphthene	77	U	ug/kg dry	77	6/21/17 7:45	7/06/17 19:46	EPA 8270D



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division

980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 17-0399

Project: 17-0399, International Paper/Baldwin Pole - Reported by Diana Burdette

Semi Volatile Organics

Project: 17-0399, International Paper/Baldwin Pole**Sample ID: IP02****Lab ID: E172408-02****Station ID: IP02****Matrix: Surface Soil****Date Collected: 6/15/17 10:00**

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
208-96-8	Acenaphthylene	77	U	ug/kg dry	77	6/21/17 7:45	7/06/17 19:46	EPA 8270D
98-86-2	Acetophenone	380	U	ug/kg dry	380	6/21/17 7:45	7/06/17 19:46	EPA 8270D
120-12-7	Anthracene	77	U	ug/kg dry	77	6/21/17 7:45	7/06/17 19:46	EPA 8270D
1912-24-9	Atrazine	380	U	ug/kg dry	380	6/21/17 7:45	7/06/17 19:46	EPA 8270D
100-52-7	Benzaldehyde	41000		ug/kg dry	7700	6/21/17 7:45	7/06/17 22:56	EPA 8270D
56-55-3	Benzo(a)anthracene	77	U	ug/kg dry	77	6/21/17 7:45	7/06/17 19:46	EPA 8270D
50-32-8	Benzo(a)pyrene	77	U	ug/kg dry	77	6/21/17 7:45	7/06/17 19:46	EPA 8270D
205-99-2	Benzo(b)fluoranthene	43	J, Q-2	ug/kg dry	77	6/21/17 7:45	7/06/17 19:46	EPA 8270D
191-24-2	Benzo(g,h,i)perylene	77	U	ug/kg dry	77	6/21/17 7:45	7/06/17 19:46	EPA 8270D
207-08-9	Benzo(k)fluoranthene	77	U	ug/kg dry	77	6/21/17 7:45	7/06/17 19:46	EPA 8270D
100-51-6	Benzyl alcohol	620000		ug/kg dry	150000	6/21/17 7:45	7/07/17 13:26	EPA 8270D
85-68-7	Benzyl butyl phthalate	380	U	ug/kg dry	380	6/21/17 7:45	7/06/17 19:46	EPA 8270D
108-60-1	Bis(2-chloro-1-methylethyl) ether	380	U	ug/kg dry	380	6/21/17 7:45	7/06/17 19:46	EPA 8270D
111-91-1	Bis(2-chloroethoxy)methane	380	U	ug/kg dry	380	6/21/17 7:45	7/06/17 19:46	EPA 8270D
111-44-4	bis(2-Chloroethyl) Ether	380	U	ug/kg dry	380	6/21/17 7:45	7/06/17 19:46	EPA 8270D
117-81-7	Bis(2-ethylhexyl) phthalate	380	U	ug/kg dry	380	6/21/17 7:45	7/06/17 19:46	EPA 8270D
105-60-2	Caprolactam	380	U	ug/kg dry	380	6/21/17 7:45	7/06/17 19:46	EPA 8270D
86-74-8	Carbazole	77	U	ug/kg dry	77	6/21/17 7:45	7/06/17 19:46	EPA 8270D
218-01-9	Chrysene	59	J, Q-2	ug/kg dry	77	6/21/17 7:45	7/06/17 19:46	EPA 8270D
53-70-3	Dibenz(a,h)anthracene	77	U	ug/kg dry	77	6/21/17 7:45	7/06/17 19:46	EPA 8270D
132-64-9	Dibenzofuran	77	U	ug/kg dry	77	6/21/17 7:45	7/06/17 19:46	EPA 8270D
84-66-2	Diethyl phthalate	380	U	ug/kg dry	380	6/21/17 7:45	7/06/17 19:46	EPA 8270D
131-11-3	Dimethyl phthalate	380	U	ug/kg dry	380	6/21/17 7:45	7/06/17 19:46	EPA 8270D
84-74-2	Di-n-butylphthalate	380	U	ug/kg dry	380	6/21/17 7:45	7/06/17 19:46	EPA 8270D
117-84-0	Di-n-octylphthalate	380	U	ug/kg dry	380	6/21/17 7:45	7/06/17 19:46	EPA 8270D
206-44-0	Fluoranthene	56	J, Q-2	ug/kg dry	77	6/21/17 7:45	7/06/17 19:46	EPA 8270D
86-73-7	Fluorene	77	U	ug/kg dry	77	6/21/17 7:45	7/06/17 19:46	EPA 8270D
118-74-1	Hexachlorobenzene (HCB)	380	U	ug/kg dry	380	6/21/17 7:45	7/06/17 19:46	EPA 8270D
77-47-4	Hexachlorocyclopentadiene (HCCP)	380	U	ug/kg dry	380	6/21/17 7:45	7/06/17 19:46	EPA 8270D



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D.A.R.T. Id: 17-0399

Project: 17-0399, International Paper/Baldwin Pole - Reported by Diana Burdette

Semi Volatile Organics

Project: 17-0399, International Paper/Baldwin Pole**Sample ID:** IP02**Lab ID:** E172408-02**Station ID:** IP02**Matrix:** Surface Soil**Date Collected:** 6/15/17 10:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
67-72-1	Hexachloroethane	380	U	ug/kg dry	380	6/21/17 7:45	7/06/17 19:46	EPA 8270D
193-39-5	Indeno (1,2,3-cd) pyrene	77	U	ug/kg dry	77	6/21/17 7:45	7/06/17 19:46	EPA 8270D
78-59-1	Isophorone	380	U	ug/kg dry	380	6/21/17 7:45	7/06/17 19:46	EPA 8270D
91-20-3	Naphthalene	77	U	ug/kg dry	77	6/21/17 7:45	7/06/17 19:46	EPA 8270D
98-95-3	Nitrobenzene	380	U	ug/kg dry	380	6/21/17 7:45	7/06/17 19:46	EPA 8270D
621-64-7	n-Nitroso di-n-Propylamine	380	U	ug/kg dry	380	6/21/17 7:45	7/06/17 19:46	EPA 8270D
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	380	U	ug/kg dry	380	6/21/17 7:45	7/06/17 19:46	EPA 8270D
87-86-5	Pentachlorophenol	1600		ug/kg dry	380	6/21/17 7:45	7/06/17 19:46	EPA 8270D
85-01-8	Phenanthrene	81		ug/kg dry	77	6/21/17 7:45	7/06/17 19:46	EPA 8270D
108-95-2	Phenol	380	U	ug/kg dry	380	6/21/17 7:45	7/06/17 19:46	EPA 8270D
129-00-0	Pyrene	77	U	ug/kg dry	77	6/21/17 7:45	7/06/17 19:46	EPA 8270D

Tentatively Identified Compounds:

R4-8001355	Benzyl acrylate (TIC)	2000	NJ	ug/kg dry	6/21/17 7:45	7/06/17 19:46	EPA 8270D
R4-8001361	Benzyl benzoate (TIC)	2000	NJ	ug/kg dry	6/21/17 7:45	7/06/17 19:46	EPA 8270D
R4-8001358	Diphenylethanediol (TIC)	10000	NJ	ug/kg dry	6/21/17 7:45	7/06/17 19:46	EPA 8270D
R4-8001356	Hexamethylene diacrylate (TIC)	3000	NJ	ug/kg dry	6/21/17 7:45	7/06/17 19:46	EPA 8270D
R4-8001360	Hydroxyphenylmethoxyphenylpropane (TIC)	2000	NJ	ug/kg dry	6/21/17 7:45	7/06/17 19:46	EPA 8270D
R4-8001359	Isopropylidenediphenol (TIC)	2000	NJ	ug/kg dry	6/21/17 7:45	7/06/17 19:46	EPA 8270D
R4-8001362	Methylethylenephenol (TIC)	8000	NJ	ug/kg dry	6/21/17 7:45	7/06/17 19:46	EPA 8270D
R4-6501	Unidentified Compound(s)	30000	J	ug/kg dry	6/21/17 7:45	7/06/17 19:46	EPA 8270D



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D.A.R.T. Id: 17-0399

Project: 17-0399, International Paper/Baldwin Pole - Reported by Diana Burdette

Semi Volatile Organics

Project: 17-0399, International Paper/Baldwin Pole**Sample ID: IP03****Lab ID: E172408-03****Station ID: IP03****Matrix: Surface Soil****Date Collected: 6/15/17 10:20**

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
1319-77-3	(3-and/or 4-)Methylphenol	350	U	ug/kg dry	350	6/21/17 7:45	7/06/17 20:50	EPA 8270D
92-52-4	1,1-Biphenyl	71	U, J, QM-3	ug/kg dry	71	6/21/17 7:45	7/06/17 20:50	EPA 8270D
123-91-1	1,4-Dioxane	71	U, J, QM-3	ug/kg dry	71	6/21/17 7:45	7/06/17 20:50	EPA 8270D
90-12-0	1-Methylnaphthalene	71	U, J, QM-3	ug/kg dry	71	6/21/17 7:45	7/06/17 20:50	EPA 8270D
58-90-2	2,3,4,6-Tetrachlorophenol	350	U	ug/kg dry	350	6/21/17 7:45	7/06/17 20:50	EPA 8270D
95-95-4	2,4,5-Trichlorophenol	350	U	ug/kg dry	350	6/21/17 7:45	7/06/17 20:50	EPA 8270D
88-06-2	2,4,6-Trichlorophenol	350	U	ug/kg dry	350	6/21/17 7:45	7/06/17 20:50	EPA 8270D
120-83-2	2,4-Dichlorophenol	350	U, J, QM-3	ug/kg dry	350	6/21/17 7:45	7/06/17 20:50	EPA 8270D
105-67-9	2,4-Dimethylphenol	350	U	ug/kg dry	350	6/21/17 7:45	7/06/17 20:50	EPA 8270D
51-28-5	2,4-Dinitrophenol	710	U	ug/kg dry	710	6/21/17 7:45	7/06/17 20:50	EPA 8270D
121-14-2	2,4-Dinitrotoluene	350	U	ug/kg dry	350	6/21/17 7:45	7/06/17 20:50	EPA 8270D
606-20-2	2,6-Dinitrotoluene	350	U	ug/kg dry	350	6/21/17 7:45	7/06/17 20:50	EPA 8270D
91-58-7	2-Chloronaphthalene	350	U, J, QM-3	ug/kg dry	350	6/21/17 7:45	7/06/17 20:50	EPA 8270D
95-57-8	2-Chlorophenol	350	U, J, QM-3	ug/kg dry	350	6/21/17 7:45	7/06/17 20:50	EPA 8270D
534-52-1	2-Methyl-4,6-dinitrophenol	350	U	ug/kg dry	350	6/21/17 7:45	7/06/17 20:50	EPA 8270D
91-57-6	2-Methylnaphthalene	71	U, J, QM-3	ug/kg dry	71	6/21/17 7:45	7/06/17 20:50	EPA 8270D
95-48-7	2-Methylphenol	350	U	ug/kg dry	350	6/21/17 7:45	7/06/17 20:50	EPA 8270D
88-74-4	2-Nitroaniline	350	U	ug/kg dry	350	6/21/17 7:45	7/06/17 20:50	EPA 8270D
88-75-5	2-Nitrophenol	350	U, J, QM-3	ug/kg dry	350	6/21/17 7:45	7/06/17 20:50	EPA 8270D
91-94-1	3,3'-Dichlorobenzidine	350	U	ug/kg dry	350	6/21/17 7:45	7/06/17 20:50	EPA 8270D
99-09-2	3-Nitroaniline	350	U	ug/kg dry	350	6/21/17 7:45	7/06/17 20:50	EPA 8270D
101-55-3	4-Bromophenyl phenyl ether	350	U	ug/kg dry	350	6/21/17 7:45	7/06/17 20:50	EPA 8270D
59-50-7	4-Chloro-3-methylphenol	350	U	ug/kg dry	350	6/21/17 7:45	7/06/17 20:50	EPA 8270D
106-47-8	4-Chloroaniline	350	U	ug/kg dry	350	6/21/17 7:45	7/06/17 20:50	EPA 8270D
7005-72-3	4-Chlorophenyl phenyl ether	350	U	ug/kg dry	350	6/21/17 7:45	7/06/17 20:50	EPA 8270D
100-01-6	4-Nitroaniline	350	U	ug/kg dry	350	6/21/17 7:45	7/06/17 20:50	EPA 8270D
100-02-7	4-Nitrophenol	350	U	ug/kg dry	350	6/21/17 7:45	7/06/17 20:50	EPA 8270D
83-32-9	Acenaphthene	71	U	ug/kg dry	71	6/21/17 7:45	7/06/17 20:50	EPA 8270D



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division

980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 17-0399

Project: 17-0399, International Paper/Baldwin Pole - Reported by Diana Burdette

Semi Volatile Organics

Project: 17-0399, International Paper/Baldwin Pole**Sample ID: IP03****Lab ID: E172408-03****Station ID: IP03****Matrix: Surface Soil****Date Collected: 6/15/17 10:20**

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
208-96-8	Acenaphthylene	54	J, Q-2	ug/kg dry	71	6/21/17 7:45	7/06/17 20:50	EPA 8270D
98-86-2	Acetophenone	350	U, J, QM-3	ug/kg dry	350	6/21/17 7:45	7/06/17 20:50	EPA 8270D
120-12-7	Anthracene	100		ug/kg dry	71	6/21/17 7:45	7/06/17 20:50	EPA 8270D
1912-24-9	Atrazine	350	U	ug/kg dry	350	6/21/17 7:45	7/06/17 20:50	EPA 8270D
100-52-7	Benzaldehyde	350	U	ug/kg dry	350	6/21/17 7:45	7/06/17 20:50	EPA 8270D
56-55-3	Benzo(a)anthracene	42	J, Q-2	ug/kg dry	71	6/21/17 7:45	7/06/17 20:50	EPA 8270D
50-32-8	Benzo(a)pyrene	120		ug/kg dry	71	6/21/17 7:45	7/06/17 20:50	EPA 8270D
205-99-2	Benzo(b)fluoranthene	280		ug/kg dry	71	6/21/17 7:45	7/06/17 20:50	EPA 8270D
191-24-2	Benzo(g,h,i)perylene	560		ug/kg dry	71	6/21/17 7:45	7/06/17 20:50	EPA 8270D
207-08-9	Benzo(k)fluoranthene	170		ug/kg dry	71	6/21/17 7:45	7/06/17 20:50	EPA 8270D
100-51-6	Benzyl alcohol	390		ug/kg dry	350	6/21/17 7:45	7/06/17 20:50	EPA 8270D
85-68-7	Benzyl butyl phthalate	350	U	ug/kg dry	350	6/21/17 7:45	7/06/17 20:50	EPA 8270D
108-60-1	Bis(2-chloro-1-methylethyl) ether	350	U, J, QM-3	ug/kg dry	350	6/21/17 7:45	7/06/17 20:50	EPA 8270D
111-91-1	Bis(2-chloroethoxy)methane	350	U, J, QM-3	ug/kg dry	350	6/21/17 7:45	7/06/17 20:50	EPA 8270D
111-44-4	bis(2-Chloroethyl) Ether	350	U, J, QM-3	ug/kg dry	350	6/21/17 7:45	7/06/17 20:50	EPA 8270D
117-81-7	Bis(2-ethylhexyl) phthalate	350	U	ug/kg dry	350	6/21/17 7:45	7/06/17 20:50	EPA 8270D
105-60-2	Caprolactam	350	U	ug/kg dry	350	6/21/17 7:45	7/06/17 20:50	EPA 8270D
86-74-8	Carbazole	39	J, Q-2	ug/kg dry	71	6/21/17 7:45	7/06/17 20:50	EPA 8270D
218-01-9	Chrysene	110		ug/kg dry	71	6/21/17 7:45	7/06/17 20:50	EPA 8270D
53-70-3	Dibenz(a,h)anthracene	67	J, Q-2	ug/kg dry	71	6/21/17 7:45	7/06/17 20:50	EPA 8270D
132-64-9	Dibenzofuran	71	U	ug/kg dry	71	6/21/17 7:45	7/06/17 20:50	EPA 8270D
84-66-2	Diethyl phthalate	350	U	ug/kg dry	350	6/21/17 7:45	7/06/17 20:50	EPA 8270D
131-11-3	Dimethyl phthalate	350	U	ug/kg dry	350	6/21/17 7:45	7/06/17 20:50	EPA 8270D
84-74-2	Di-n-butylphthalate	350	U	ug/kg dry	350	6/21/17 7:45	7/06/17 20:50	EPA 8270D
117-84-0	Di-n-octylphthalate	350	U	ug/kg dry	350	6/21/17 7:45	7/06/17 20:50	EPA 8270D
206-44-0	Fluoranthene	63	J, Q-2	ug/kg dry	71	6/21/17 7:45	7/06/17 20:50	EPA 8270D
86-73-7	Fluorene	71	U	ug/kg dry	71	6/21/17 7:45	7/06/17 20:50	EPA 8270D
118-74-1	Hexachlorobenzene (HCB)	350	U	ug/kg dry	350	6/21/17 7:45	7/06/17 20:50	EPA 8270D
77-47-4	Hexachlorocyclopentadiene (HCCP)	350	U	ug/kg dry	350	6/21/17 7:45	7/06/17 20:50	EPA 8270D



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D.A.R.T. Id: 17-0399

Project: 17-0399, International Paper/Baldwin Pole - Reported by Diana Burdette

Semi Volatile Organics

Project: 17-0399, International Paper/Baldwin Pole**Sample ID: IP03****Lab ID: E172408-03****Station ID: IP03****Matrix: Surface Soil****Date Collected: 6/15/17 10:20**

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
67-72-1	Hexachloroethane	350	U, J, QM-3	ug/kg dry	350	6/21/17 7:45	7/06/17 20:50	EPA 8270D
193-39-5	Indeno (1,2,3-cd) pyrene	280		ug/kg dry	71	6/21/17 7:45	7/06/17 20:50	EPA 8270D
78-59-1	Isophorone	350	U, J, QM-3	ug/kg dry	350	6/21/17 7:45	7/06/17 20:50	EPA 8270D
91-20-3	Naphthalene	71	U, J, QM-1, QM-3	ug/kg dry	71	6/21/17 7:45	7/06/17 20:50	EPA 8270D
98-95-3	Nitrobenzene	350	U, J, QM-3	ug/kg dry	350	6/21/17 7:45	7/06/17 20:50	EPA 8270D
621-64-7	n-Nitroso di-n-Propylamine	350	U, J, QM-3	ug/kg dry	350	6/21/17 7:45	7/06/17 20:50	EPA 8270D
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	350	U	ug/kg dry	350	6/21/17 7:45	7/06/17 20:50	EPA 8270D
87-86-5	Pentachlorophenol	170	J, Q-2	ug/kg dry	350	6/21/17 7:45	7/06/17 20:50	EPA 8270D
85-01-8	Phenanthrene	71	U	ug/kg dry	71	6/21/17 7:45	7/06/17 20:50	EPA 8270D
108-95-2	Phenol	350	U	ug/kg dry	350	6/21/17 7:45	7/06/17 20:50	EPA 8270D
129-00-0	Pyrene	100		ug/kg dry	71	6/21/17 7:45	7/06/17 20:50	EPA 8270D
Tentatively Identified Compounds:								
R4-8000614	Cyclopentaphenanthrenone (TIC)	400	NJ	ug/kg dry		6/21/17 7:45	7/06/17 20:50	EPA 8270D
R4-6500	Petroleum Product:		N			6/21/17 7:45	7/06/17 20:50	EPA 8270D



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D.A.R.T. Id: 17-0399

Project: 17-0399, International Paper/Baldwin Pole - Reported by Diana Burdette

Semi Volatile Organics

Project: 17-0399, International Paper/Baldwin Pole**Sample ID: IP04****Lab ID: E172408-04****Station ID: IP04****Matrix: Surface Soil****Date Collected: 6/15/17 10:35**

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
1319-77-3	(3-and/or 4-)Methylphenol	350	U	ug/kg dry	350	6/21/17 7:45	7/06/17 21:21	EPA 8270D
92-52-4	1,1-Biphenyl	71	U	ug/kg dry	71	6/21/17 7:45	7/06/17 21:21	EPA 8270D
123-91-1	1,4-Dioxane	71	U	ug/kg dry	71	6/21/17 7:45	7/06/17 21:21	EPA 8270D
90-12-0	1-Methylnaphthalene	71	U	ug/kg dry	71	6/21/17 7:45	7/06/17 21:21	EPA 8270D
58-90-2	2,3,4,6-Tetrachlorophenol	670		ug/kg dry	350	6/21/17 7:45	7/06/17 21:21	EPA 8270D
95-95-4	2,4,5-Trichlorophenol	350	U	ug/kg dry	350	6/21/17 7:45	7/06/17 21:21	EPA 8270D
88-06-2	2,4,6-Trichlorophenol	350	U	ug/kg dry	350	6/21/17 7:45	7/06/17 21:21	EPA 8270D
120-83-2	2,4-Dichlorophenol	350	U	ug/kg dry	350	6/21/17 7:45	7/06/17 21:21	EPA 8270D
105-67-9	2,4-Dimethylphenol	350	U	ug/kg dry	350	6/21/17 7:45	7/06/17 21:21	EPA 8270D
51-28-5	2,4-Dinitrophenol	710	U	ug/kg dry	710	6/21/17 7:45	7/06/17 21:21	EPA 8270D
121-14-2	2,4-Dinitrotoluene	350	U	ug/kg dry	350	6/21/17 7:45	7/06/17 21:21	EPA 8270D
606-20-2	2,6-Dinitrotoluene	350	U	ug/kg dry	350	6/21/17 7:45	7/06/17 21:21	EPA 8270D
91-58-7	2-Chloronaphthalene	350	U	ug/kg dry	350	6/21/17 7:45	7/06/17 21:21	EPA 8270D
95-57-8	2-Chlorophenol	350	U	ug/kg dry	350	6/21/17 7:45	7/06/17 21:21	EPA 8270D
534-52-1	2-Methyl-4,6-dinitrophenol	350	U	ug/kg dry	350	6/21/17 7:45	7/06/17 21:21	EPA 8270D
91-57-6	2-Methylnaphthalene	71	U	ug/kg dry	71	6/21/17 7:45	7/06/17 21:21	EPA 8270D
95-48-7	2-Methylphenol	350	U	ug/kg dry	350	6/21/17 7:45	7/06/17 21:21	EPA 8270D
88-74-4	2-Nitroaniline	350	U	ug/kg dry	350	6/21/17 7:45	7/06/17 21:21	EPA 8270D
88-75-5	2-Nitrophenol	350	U	ug/kg dry	350	6/21/17 7:45	7/06/17 21:21	EPA 8270D
91-94-1	3,3'-Dichlorobenzidine	350	U	ug/kg dry	350	6/21/17 7:45	7/06/17 21:21	EPA 8270D
99-09-2	3-Nitroaniline	350	U	ug/kg dry	350	6/21/17 7:45	7/06/17 21:21	EPA 8270D
101-55-3	4-Bromophenyl phenyl ether	350	U	ug/kg dry	350	6/21/17 7:45	7/06/17 21:21	EPA 8270D
59-50-7	4-Chloro-3-methylphenol	350	U	ug/kg dry	350	6/21/17 7:45	7/06/17 21:21	EPA 8270D
106-47-8	4-Chloroaniline	350	U	ug/kg dry	350	6/21/17 7:45	7/06/17 21:21	EPA 8270D
7005-72-3	4-Chlorophenyl phenyl ether	350	U	ug/kg dry	350	6/21/17 7:45	7/06/17 21:21	EPA 8270D
100-01-6	4-Nitroaniline	350	U	ug/kg dry	350	6/21/17 7:45	7/06/17 21:21	EPA 8270D
100-02-7	4-Nitrophenol	350	U	ug/kg dry	350	6/21/17 7:45	7/06/17 21:21	EPA 8270D
83-32-9	Acenaphthene	71	U	ug/kg dry	71	6/21/17 7:45	7/06/17 21:21	EPA 8270D



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Region 4 Science and Ecosystem Support Division

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D.A.R.T. Id: 17-0399

Project: 17-0399, International Paper/Baldwin Pole - Reported by Diana Burdette

Semi Volatile Organics

Project: 17-0399, International Paper/Baldwin Pole**Sample ID: IP04****Lab ID: E172408-04****Station ID: IP04****Matrix: Surface Soil****Date Collected: 6/15/17 10:35**

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
208-96-8	Acenaphthylene	120		ug/kg dry	71	6/21/17 7:45	7/06/17 21:21	EPA 8270D
98-86-2	Acetophenone	65	J, Q-2	ug/kg dry	350	6/21/17 7:45	7/06/17 21:21	EPA 8270D
120-12-7	Anthracene	240		ug/kg dry	71	6/21/17 7:45	7/06/17 21:21	EPA 8270D
1912-24-9	Atrazine	350	U	ug/kg dry	350	6/21/17 7:45	7/06/17 21:21	EPA 8270D
100-52-7	Benzaldehyde	3400		ug/kg dry	350	6/21/17 7:45	7/06/17 21:21	EPA 8270D
56-55-3	Benzo(a)anthracene	1000		ug/kg dry	71	6/21/17 7:45	7/06/17 21:21	EPA 8270D
50-32-8	Benzo(a)pyrene	1100		ug/kg dry	71	6/21/17 7:45	7/06/17 21:21	EPA 8270D
205-99-2	Benzo(b)fluoranthene	2800		ug/kg dry	71	6/21/17 7:45	7/06/17 21:21	EPA 8270D
191-24-2	Benzo(g,h,i)perylene	810		ug/kg dry	71	6/21/17 7:45	7/06/17 21:21	EPA 8270D
207-08-9	Benzo(k)fluoranthene	2400		ug/kg dry	71	6/21/17 7:45	7/06/17 21:21	EPA 8270D
100-51-6	Benzyl alcohol	39000		ug/kg dry	7100	6/21/17 7:45	7/06/17 23:28	EPA 8270D
85-68-7	Benzyl butyl phthalate	350	U	ug/kg dry	350	6/21/17 7:45	7/06/17 21:21	EPA 8270D
108-60-1	Bis(2-chloro-1-methylethyl) ether	350	U	ug/kg dry	350	6/21/17 7:45	7/06/17 21:21	EPA 8270D
111-91-1	Bis(2-chloroethoxy)methane	350	U	ug/kg dry	350	6/21/17 7:45	7/06/17 21:21	EPA 8270D
111-44-4	bis(2-Chloroethyl) Ether	350	U	ug/kg dry	350	6/21/17 7:45	7/06/17 21:21	EPA 8270D
117-81-7	Bis(2-ethylhexyl) phthalate	350	U	ug/kg dry	350	6/21/17 7:45	7/06/17 21:21	EPA 8270D
105-60-2	Caprolactam	350	U	ug/kg dry	350	6/21/17 7:45	7/06/17 21:21	EPA 8270D
86-74-8	Carbazole	240		ug/kg dry	71	6/21/17 7:45	7/06/17 21:21	EPA 8270D
218-01-9	Chrysene	2900		ug/kg dry	71	6/21/17 7:45	7/06/17 21:21	EPA 8270D
53-70-3	Dibenz(a,h)anthracene	260		ug/kg dry	71	6/21/17 7:45	7/06/17 21:21	EPA 8270D
132-64-9	Dibenzofuran	71	U	ug/kg dry	71	6/21/17 7:45	7/06/17 21:21	EPA 8270D
84-66-2	Diethyl phthalate	350	U	ug/kg dry	350	6/21/17 7:45	7/06/17 21:21	EPA 8270D
131-11-3	Dimethyl phthalate	350	U	ug/kg dry	350	6/21/17 7:45	7/06/17 21:21	EPA 8270D
84-74-2	Di-n-butylphthalate	350	U	ug/kg dry	350	6/21/17 7:45	7/06/17 21:21	EPA 8270D
117-84-0	Di-n-octylphthalate	350	U	ug/kg dry	350	6/21/17 7:45	7/06/17 21:21	EPA 8270D
206-44-0	Fluoranthene	2300		ug/kg dry	71	6/21/17 7:45	7/06/17 21:21	EPA 8270D
86-73-7	Fluorene	71	U	ug/kg dry	71	6/21/17 7:45	7/06/17 21:21	EPA 8270D
118-74-1	Hexachlorobenzene (HCB)	350	U	ug/kg dry	350	6/21/17 7:45	7/06/17 21:21	EPA 8270D
77-47-4	Hexachlorocyclopentadiene (HCCP)	350	U	ug/kg dry	350	6/21/17 7:45	7/06/17 21:21	EPA 8270D



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D.A.R.T. Id: 17-0399

Project: 17-0399, International Paper/Baldwin Pole - Reported by Diana Burdette

Semi Volatile Organics

Project: 17-0399, International Paper/Baldwin Pole**Sample ID: IP04****Lab ID: E172408-04****Station ID: IP04****Matrix: Surface Soil****Date Collected: 6/15/17 10:35**

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
67-72-1	Hexachloroethane	350	U	ug/kg dry	350	6/21/17 7:45	7/06/17 21:21	EPA 8270D
193-39-5	Indeno (1,2,3-cd) pyrene	810		ug/kg dry	71	6/21/17 7:45	7/06/17 21:21	EPA 8270D
78-59-1	Isophorone	350	U	ug/kg dry	350	6/21/17 7:45	7/06/17 21:21	EPA 8270D
91-20-3	Naphthalene	71	U	ug/kg dry	71	6/21/17 7:45	7/06/17 21:21	EPA 8270D
98-95-3	Nitrobenzene	350	U	ug/kg dry	350	6/21/17 7:45	7/06/17 21:21	EPA 8270D
621-64-7	n-Nitroso di-n-Propylamine	350	U	ug/kg dry	350	6/21/17 7:45	7/06/17 21:21	EPA 8270D
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	350	U	ug/kg dry	350	6/21/17 7:45	7/06/17 21:21	EPA 8270D
87-86-5	Pentachlorophenol	11000		ug/kg dry	7100	6/21/17 7:45	7/06/17 23:28	EPA 8270D
85-01-8	Phenanthrene	180		ug/kg dry	71	6/21/17 7:45	7/06/17 21:21	EPA 8270D
108-95-2	Phenol	350	U	ug/kg dry	350	6/21/17 7:45	7/06/17 21:21	EPA 8270D
129-00-0	Pyrene	3300		ug/kg dry	71	6/21/17 7:45	7/06/17 21:21	EPA 8270D

Tentatively Identified Compounds:

R4-6608	Anthracenedione (TIC)	2000	NJ	ug/kg dry	6/21/17 7:45	7/06/17 21:21	EPA 8270D
R4-8000614	Cyclopentaphenanthrenone (TIC)	2000	NJ	ug/kg dry	6/21/17 7:45	7/06/17 21:21	EPA 8270D
R4-6510	Hexadecanoic acid (TIC)	500	NJ	ug/kg dry	6/21/17 7:45	7/06/17 21:21	EPA 8270D
R4-8001356	Hexamethylene diacrylate (TIC)	400	NJ	ug/kg dry	6/21/17 7:45	7/06/17 21:21	EPA 8270D
R4-6577	Methylphenanthrene (TIC)	400	NJ	ug/kg dry	6/21/17 7:45	7/06/17 21:21	EPA 8270D
R4-6500	Petroleum Product:		N		6/21/17 7:45	7/06/17 21:21	EPA 8270D
R4-6501	Unidentified Compound(s)	3000	J	ug/kg dry	6/21/17 7:45	7/06/17 21:21	EPA 8270D



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division

980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 17-0399

Project: 17-0399, International Paper/Baldwin Pole - Reported by Diana Burdette

Semi Volatile Organics

Project: 17-0399, International Paper/Baldwin Pole**Sample ID:** IP05**Lab ID:** E172408-05**Station ID:** IP05**Matrix:** Surface Soil**Date Collected:** 6/15/17 10:50

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
1319-77-3	(3-and/or 4-)Methylphenol	400	U	ug/kg dry	400	6/21/17 7:45	7/06/17 20:18	EPA 8270D
92-52-4	1,1-Biphenyl	81	U	ug/kg dry	81	6/21/17 7:45	7/06/17 20:18	EPA 8270D
123-91-1	1,4-Dioxane	81	U	ug/kg dry	81	6/21/17 7:45	7/06/17 20:18	EPA 8270D
90-12-0	1-Methylnaphthalene	81	U	ug/kg dry	81	6/21/17 7:45	7/06/17 20:18	EPA 8270D
58-90-2	2,3,4,6-Tetrachlorophenol	400	U	ug/kg dry	400	6/21/17 7:45	7/06/17 20:18	EPA 8270D
95-95-4	2,4,5-Trichlorophenol	400	U	ug/kg dry	400	6/21/17 7:45	7/06/17 20:18	EPA 8270D
88-06-2	2,4,6-Trichlorophenol	400	U	ug/kg dry	400	6/21/17 7:45	7/06/17 20:18	EPA 8270D
120-83-2	2,4-Dichlorophenol	400	U	ug/kg dry	400	6/21/17 7:45	7/06/17 20:18	EPA 8270D
105-67-9	2,4-Dimethylphenol	400	U	ug/kg dry	400	6/21/17 7:45	7/06/17 20:18	EPA 8270D
51-28-5	2,4-Dinitrophenol	810	U	ug/kg dry	810	6/21/17 7:45	7/06/17 20:18	EPA 8270D
121-14-2	2,4-Dinitrotoluene	400	U	ug/kg dry	400	6/21/17 7:45	7/06/17 20:18	EPA 8270D
606-20-2	2,6-Dinitrotoluene	400	U	ug/kg dry	400	6/21/17 7:45	7/06/17 20:18	EPA 8270D
91-58-7	2-Chloronaphthalene	400	U	ug/kg dry	400	6/21/17 7:45	7/06/17 20:18	EPA 8270D
95-57-8	2-Chlorophenol	400	U	ug/kg dry	400	6/21/17 7:45	7/06/17 20:18	EPA 8270D
534-52-1	2-Methyl-4,6-dinitrophenol	400	U	ug/kg dry	400	6/21/17 7:45	7/06/17 20:18	EPA 8270D
91-57-6	2-Methylnaphthalene	81	U	ug/kg dry	81	6/21/17 7:45	7/06/17 20:18	EPA 8270D
95-48-7	2-Methylphenol	400	U	ug/kg dry	400	6/21/17 7:45	7/06/17 20:18	EPA 8270D
88-74-4	2-Nitroaniline	400	U	ug/kg dry	400	6/21/17 7:45	7/06/17 20:18	EPA 8270D
88-75-5	2-Nitrophenol	400	U	ug/kg dry	400	6/21/17 7:45	7/06/17 20:18	EPA 8270D
91-94-1	3,3'-Dichlorobenzidine	400	U	ug/kg dry	400	6/21/17 7:45	7/06/17 20:18	EPA 8270D
99-09-2	3-Nitroaniline	400	U	ug/kg dry	400	6/21/17 7:45	7/06/17 20:18	EPA 8270D
101-55-3	4-Bromophenyl phenyl ether	400	U	ug/kg dry	400	6/21/17 7:45	7/06/17 20:18	EPA 8270D
59-50-7	4-Chloro-3-methylphenol	400	U	ug/kg dry	400	6/21/17 7:45	7/06/17 20:18	EPA 8270D
106-47-8	4-Chloroaniline	400	U	ug/kg dry	400	6/21/17 7:45	7/06/17 20:18	EPA 8270D
7005-72-3	4-Chlorophenyl phenyl ether	400	U	ug/kg dry	400	6/21/17 7:45	7/06/17 20:18	EPA 8270D
100-01-6	4-Nitroaniline	400	U	ug/kg dry	400	6/21/17 7:45	7/06/17 20:18	EPA 8270D
100-02-7	4-Nitrophenol	400	U	ug/kg dry	400	6/21/17 7:45	7/06/17 20:18	EPA 8270D
83-32-9	Acenaphthene	81	U	ug/kg dry	81	6/21/17 7:45	7/06/17 20:18	EPA 8270D



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division

980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 17-0399

Project: 17-0399, International Paper/Baldwin Pole - Reported by Diana Burdette

Semi Volatile Organics

Project: 17-0399, International Paper/Baldwin Pole**Sample ID: IP05****Lab ID: E172408-05****Station ID: IP05****Matrix: Surface Soil****Date Collected: 6/15/17 10:50**

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
208-96-8	Acenaphthylene	81	U	ug/kg dry	81	6/21/17 7:45	7/06/17 20:18	EPA 8270D
98-86-2	Acetophenone	400	U	ug/kg dry	400	6/21/17 7:45	7/06/17 20:18	EPA 8270D
120-12-7	Anthracene	81	U	ug/kg dry	81	6/21/17 7:45	7/06/17 20:18	EPA 8270D
1912-24-9	Atrazine	400	U	ug/kg dry	400	6/21/17 7:45	7/06/17 20:18	EPA 8270D
100-52-7	Benzaldehyde	400	U	ug/kg dry	400	6/21/17 7:45	7/06/17 20:18	EPA 8270D
56-55-3	Benzo(a)anthracene	81	U	ug/kg dry	81	6/21/17 7:45	7/06/17 20:18	EPA 8270D
50-32-8	Benzo(a)pyrene	81	U	ug/kg dry	81	6/21/17 7:45	7/06/17 20:18	EPA 8270D
205-99-2	Benzo(b)fluoranthene	81	U	ug/kg dry	81	6/21/17 7:45	7/06/17 20:18	EPA 8270D
191-24-2	Benzo(g,h,i)perylene	81	U	ug/kg dry	81	6/21/17 7:45	7/06/17 20:18	EPA 8270D
207-08-9	Benzo(k)fluoranthene	81	U	ug/kg dry	81	6/21/17 7:45	7/06/17 20:18	EPA 8270D
100-51-6	Benzyl alcohol	400	U	ug/kg dry	400	6/21/17 7:45	7/06/17 20:18	EPA 8270D
85-68-7	Benzyl butyl phthalate	400	U	ug/kg dry	400	6/21/17 7:45	7/06/17 20:18	EPA 8270D
108-60-1	Bis(2-chloro-1-methylethyl) ether	400	U	ug/kg dry	400	6/21/17 7:45	7/06/17 20:18	EPA 8270D
111-91-1	Bis(2-chloroethoxy)methane	400	U	ug/kg dry	400	6/21/17 7:45	7/06/17 20:18	EPA 8270D
111-44-4	bis(2-Chloroethyl) Ether	400	U	ug/kg dry	400	6/21/17 7:45	7/06/17 20:18	EPA 8270D
117-81-7	Bis(2-ethylhexyl) phthalate	400	U	ug/kg dry	400	6/21/17 7:45	7/06/17 20:18	EPA 8270D
105-60-2	Caprolactam	400	U	ug/kg dry	400	6/21/17 7:45	7/06/17 20:18	EPA 8270D
86-74-8	Carbazole	81	U	ug/kg dry	81	6/21/17 7:45	7/06/17 20:18	EPA 8270D
218-01-9	Chrysene	81	U	ug/kg dry	81	6/21/17 7:45	7/06/17 20:18	EPA 8270D
53-70-3	Dibenz(a,h)anthracene	81	U	ug/kg dry	81	6/21/17 7:45	7/06/17 20:18	EPA 8270D
132-64-9	Dibenzofuran	81	U	ug/kg dry	81	6/21/17 7:45	7/06/17 20:18	EPA 8270D
84-66-2	Diethyl phthalate	400	U	ug/kg dry	400	6/21/17 7:45	7/06/17 20:18	EPA 8270D
131-11-3	Dimethyl phthalate	400	U	ug/kg dry	400	6/21/17 7:45	7/06/17 20:18	EPA 8270D
84-74-2	Di-n-butylphthalate	400	U	ug/kg dry	400	6/21/17 7:45	7/06/17 20:18	EPA 8270D
117-84-0	Di-n-octylphthalate	400	U	ug/kg dry	400	6/21/17 7:45	7/06/17 20:18	EPA 8270D
206-44-0	Fluoranthene	81	U	ug/kg dry	81	6/21/17 7:45	7/06/17 20:18	EPA 8270D
86-73-7	Fluorene	81	U	ug/kg dry	81	6/21/17 7:45	7/06/17 20:18	EPA 8270D
118-74-1	Hexachlorobenzene (HCB)	400	U	ug/kg dry	400	6/21/17 7:45	7/06/17 20:18	EPA 8270D
77-47-4	Hexachlorocyclopentadiene (HCCP)	400	U	ug/kg dry	400	6/21/17 7:45	7/06/17 20:18	EPA 8270D



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division

980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 17-0399

Project: 17-0399, International Paper/Baldwin Pole - Reported by Diana Burdette

Semi Volatile Organics

Project: 17-0399, International Paper/Baldwin Pole**Sample ID:** IP05**Lab ID:** E172408-05**Station ID:** IP05**Matrix:** Surface Soil**Date Collected:** 6/15/17 10:50

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
67-72-1	Hexachloroethane	400	U	ug/kg dry	400	6/21/17 7:45	7/06/17 20:18	EPA 8270D
193-39-5	Indeno (1,2,3-cd) pyrene	81	U	ug/kg dry	81	6/21/17 7:45	7/06/17 20:18	EPA 8270D
78-59-1	Isophorone	400	U	ug/kg dry	400	6/21/17 7:45	7/06/17 20:18	EPA 8270D
91-20-3	Naphthalene	81	U	ug/kg dry	81	6/21/17 7:45	7/06/17 20:18	EPA 8270D
98-95-3	Nitrobenzene	400	U	ug/kg dry	400	6/21/17 7:45	7/06/17 20:18	EPA 8270D
621-64-7	n-Nitroso di-n-Propylamine	400	U	ug/kg dry	400	6/21/17 7:45	7/06/17 20:18	EPA 8270D
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	400	U	ug/kg dry	400	6/21/17 7:45	7/06/17 20:18	EPA 8270D
87-86-5	Pentachlorophenol	400	U	ug/kg dry	400	6/21/17 7:45	7/06/17 20:18	EPA 8270D
85-01-8	Phenanthrene	81	U	ug/kg dry	81	6/21/17 7:45	7/06/17 20:18	EPA 8270D
108-95-2	Phenol	400	U	ug/kg dry	400	6/21/17 7:45	7/06/17 20:18	EPA 8270D
129-00-0	Pyrene	81	U	ug/kg dry	81	6/21/17 7:45	7/06/17 20:18	EPA 8270D
Tentatively Identified Compounds:								
R4-6520	Pinene (TIC)	800	NJ	ug/kg dry		6/21/17 7:45	7/06/17 20:18	EPA 8270D



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Region 4 Science and Ecosystem Support Division

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D.A.R.T. Id: 17-0399

Project: 17-0399, International Paper/Baldwin Pole - Reported by Diana Burdette

Semi Volatile Organics (SVOA) - Quality Control**US-EPA, Region 4, SESD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD RPD	RPD Limit	Notes
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Batch 1706058 - E 3545A Modified**Blank (1706058-BLK1)**

Prepared: 06/21/17 Analyzed: 07/06/17

EPA 8270D

(3-and/or 4-)Methylphenol	U	330	ug/kg dry							U
1,1-Biphenyl	U	66	"							U
1,4-Dioxane	U	66	"							U
1-Methylnaphthalene	U	66	"							U
2,3,4,6-Tetrachlorophenol	U	330	"							U
2,4,5-Trichlorophenol	U	330	"							U
2,4,6-Trichlorophenol	U	330	"							U
2,4-Dichlorophenol	U	330	"							U
2,4-Dimethylphenol	U	330	"							U
2,4-Dinitrophenol	U	660	"							U
2,4-Dinitrotoluene	U	330	"							U
2,6-Dinitrotoluene	U	330	"							U
2-Chloronaphthalene	U	330	"							U
2-Chlorophenol	U	330	"							U
2-Methyl-4,6-dinitrophenol	U	330	"							U
2-Methylnaphthalene	U	66	"							U
2-Methylphenol	U	330	"							U
2-Nitroaniline	U	330	"							U
2-Nitrophenol	U	330	"							U
3,3'-Dichlorobenzidine	U	330	"							U
3-Nitroaniline	U	330	"							U
4-Bromophenyl phenyl ether	U	330	"							U
4-Chloro-3-methylphenol	U	330	"							U
4-Chloroaniline	U	330	"							U
4-Chlorophenyl phenyl ether	U	330	"							U
4-Nitroaniline	U	330	"							U
4-Nitrophenol	U	330	"							U
Acenaphthene	U	66	"							U
Acenaphthylene	U	66	"							U
Acetophenone	U	330	"							U
Anthracene	U	66	"							U
Atrazine	U	330	"							U
Benzaldehyde	U	330	"							U
Benzo(a)anthracene	U	66	"							U
Benzo(a)pyrene	U	66	"							U
Benzo(b)fluoranthene	U	66	"							U
Benzo(g,h,i)perylene	U	66	"							U
Benzo(k)fluoranthene	U	66	"							U
Benzyl alcohol	U	330	"							U



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division

980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 17-0399

Project: 17-0399, International Paper/Baldwin Pole - Reported by Diana Burdette

Semi Volatile Organics (SVOA) - Quality Control**US-EPA, Region 4, SESD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD RPD	RPD Limit	Notes
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Batch 1706058 - E 3545A Modified**Blank (1706058-BLK1)**

Prepared: 06/21/17 Analyzed: 07/06/17

Benzyl butyl phthalate	U	330	ug/kg dry							U
Bis(2-chloro-1-methylethyl) ether	U	330	"							U
Bis(2-chloroethoxy)methane	U	330	"							U
bis(2-Chloroethyl) Ether	U	330	"							U
Bis(2-ethylhexyl) phthalate	U	330	"							U
Caprolactam	U	330	"							U
Carbazole	U	66	"							U
Chrysene	U	66	"							U
Dibenz(a,h)anthracene	U	66	"							U
Dibenzo furan	U	66	"							U
Diethyl phthalate	U	330	"							U
Dimethyl phthalate	U	330	"							U
Di-n-butylphthalate	U	330	"							U
Di-n-octylphthalate	U	330	"							U
Fluoranthene	U	66	"							U
Fluorene	U	66	"							U
Hexachlorobenzene (HCB)	U	330	"							U
Hexachlorocyclopentadiene (HCCP)	U	330	"							U
Hexachloroethane	U	330	"							U
Indeno (1,2,3-cd) pyrene	U	66	"							U
Isophorone	U	330	"							U
Naphthalene	U	66	"							U
Nitrobenzene	U	330	"							U
n-Nitroso di-n-Propylamine	U	330	"							U
n-Nitrosodiphenylamine/Diphenylamine	U	330	"							U
Pentachlorophenol	U	330	"							U
Phenanthrene	U	66	"							U
Phenol	U	330	"							U
Pyrene	U	66	"							U
Tentatively Identified Compounds	U	300	"							U



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division

980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 17-0399

Project: 17-0399, International Paper/Baldwin Pole - Reported by Diana Burdette

Semi Volatile Organics (SVOA) - Quality Control**US-EPA, Region 4, SESD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	RPD Limit	Notes
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Batch 1706058 - E 3545A Modified**LCS (1706058-BS1)**

Prepared: 06/21/17 Analyzed: 07/06/17

EPA 8270D

(3-and/or 4-)Methylphenol	1596.2	330	ug/kg dry	2000.0	79.8	56-94				
1,1-Biphenyl	1646.5	66	"	2000.0	82.3	60-95				
1,4-Dioxane	1070.0	66	"	2000.0	53.5	20-76				
1-Methylnaphthalene	1365.7	66	"	2000.0	68.3	59-87				
2,3,4,6-Tetrachlorophenol	1862.6	330	"	2000.0	93.1	42-128				
2,4,5-Trichlorophenol	1764.8	330	"	2000.0	88.2	66-105				
2,4,6-Trichlorophenol	1678.0	330	"	2000.0	83.9	63-98				
2,4-Dichlorophenol	1638.9	330	"	2000.0	81.9	62-97				
2,4-Dimethylphenol	1186.7	330	"	2000.0	59.3	24-87				
2,4-Dinitrophenol	2333.1	660	"	4000.0	58.3	17-71				
2,4-Dinitrotoluene	1857.8	330	"	2000.0	92.9	65-110				
2,6-Dinitrotoluene	1795.2	330	"	2000.0	89.8	62-110				
2-Chloronaphthalene	1645.7	330	"	2000.0	82.3	57-96				
2-Chlorophenol	1544.2	330	"	2000.0	77.2	56-90				
2-Methyl-4,6-dinitrophenol	1546.5	330	"	2000.0	77.3	51-99				
2-Methylnaphthalene	1507.0	66	"	2000.0	75.3	63-96				
2-Methylphenol	1515.6	330	"	2000.0	75.8	53-92				
2-Nitroaniline	1820.0	330	"	2000.0	91.0	61-116				
2-Nitrophenol	1558.2	330	"	2000.0	77.9	60-92				
3,3'-Dichlorobenzidine	1380.6	330	"	2000.0	69.0	31-104				
3-Nitroaniline	1647.7	330	"	2000.0	82.4	56-101				
4-Bromophenyl phenyl ether	1665.0	330	"	2000.0	83.3	55-109				
4-Chloro-3-methylphenol	1666.3	330	"	2000.0	83.3	63-102				
4-Chloroaniline	1141.6	330	"	2000.0	57.1	10-96				
4-Chlorophenyl phenyl ether	1630.0	330	"	2000.0	81.5	55-109				
4-Nitroaniline	1910.9	330	"	2000.0	95.5	56-135				
4-Nitrophenol	1778.2	330	"	2000.0	88.9	58-117				
Acenaphthene	1609.7	66	"	2000.0	80.5	60-102				
Acenaphthylene	1642.1	66	"	2000.0	82.1	59-100				
Acetophenone	1629.6	330	"	2000.0	81.5	49-96				
Anthracene	1752.1	66	"	2000.0	87.6	61-102				
Atrazine	1656.7	330	"	2000.0	82.8	10-123				
Benzaldehyde	1380.9	330	"	2000.0	69.0	41-125				
Benzo(a)anthracene	1640.6	66	"	2000.0	82.0	65-105				
Benzo(a)pyrene	1697.6	66	"	2000.0	84.9	60-113				
Benzo(b)fluoranthene	1670.7	66	"	2000.0	83.5	61-116				
Benzo(g,h,i)perylene	1254.8	66	"	2000.0	62.7	45-114				
Benzo(k)fluoranthene	1675.2	66	"	2000.0	83.8	57-115				
Benzyl alcohol	1647.5	330	"	2000.0	82.4	50-104				



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division

980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 17-0399

Project: 17-0399, International Paper/Baldwin Pole - Reported by Diana Burdette

Semi Volatile Organics (SVOA) - Quality Control**US-EPA, Region 4, SESD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	RPD Limit	Notes
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Batch 1706058 - E 3545A Modified**LCS (1706058-BS1)**

Prepared: 06/21/17 Analyzed: 07/06/17

Benzyl butyl phthalate	1694.7	330	ug/kg dry	2000.0	84.7	56-112				
Bis(2-chloro-1-methylethyl) ether	1420.9	330	"	2000.0	71.0	40-105				
Bis(2-chloroethoxy)methane	1543.6	330	"	2000.0	77.2	51-102				
bis(2-Chloroethyl) Ether	1435.9	330	"	2000.0	71.8	43-100				
Bis(2-ethylhexyl) phthalate	1531.2	330	"	2000.0	76.6	55-109				
Caprolactam	1765.2	330	"	2000.0	88.3	66-101				
Carbazole	1864.9	66	"	2000.0	93.2	62-112				
Chrysene	1685.7	66	"	2000.0	84.3	60-106				
Dibenz(a,h)anthracene	1625.6	66	"	2000.0	81.3	46-117				
Dibenzo furan	1819.4	66	"	2000.0	91.0	57-100				
Diethyl phthalate	1653.5	330	"	2000.0	82.7	57-99				
Dimethyl phthalate	1754.5	330	"	2000.0	87.7	55-97				
Di-n-butylphthalate	1731.4	330	"	2000.0	86.6	54-101				
Di-n-octylphthalate	1736.0	330	"	2000.0	86.8	48-127				
Fluoranthene	1665.1	66	"	2000.0	83.3	64-105				
Fluorene	1694.0	66	"	2000.0	84.7	62-108				
Hexachlorobenzene (HCB)	2312.3	330	"	2000.0	116	36-91				QL-2
Hexachlorocyclopentadiene (HCCP)	1310.3	330	"	2000.0	65.5	25-99				
Hexachloroethane	1444.0	330	"	2000.0	72.2	50-86				
Indeno (1,2,3-cd) pyrene	1499.7	66	"	2000.0	75.0	48-116				
Isophorone	1738.4	330	"	2000.0	86.9	55-100				
Naphthalene	1454.5	66	"	2000.0	72.7	58-89				
Nitrobenzene	1682.1	330	"	2000.0	84.1	52-102				
n-Nitroso di-n-Propylamine	1655.2	330	"	2000.0	82.8	50-98				
n-Nitrosodiphenylamine/Diphenylamine	1800.4	330	"	2000.0	90.0	59-104				
Pentachlorophenol	1592.4	330	"	2000.0	79.6	50-105				
Phenanthrene	1707.9	66	"	2000.0	85.4	62-103				
Phenol	1547.9	330	"	2000.0	77.4	56-94				
Pyrene	1628.9	66	"	2000.0	81.4	58-119				



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division

980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 17-0399

Project: 17-0399, International Paper/Baldwin Pole - Reported by Diana Burdette

Semi Volatile Organics (SVOA) - Quality Control**US-EPA, Region 4, SESD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	Limit Notes
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Batch 1706058 - E 3545A Modified**Matrix Spike (1706058-MS1)****Source: E172408-03**

Prepared: 06/21/17 Analyzed: 07/07/17

EPA 8270D

(3-and/or 4-)Methylphenol	1792.2	350	ug/kg dry	2144.4	U	83.6	10-119		
1,1-Biphenyl	1794.2	71	"	2144.4	U	83.7	56-96		
1,4-Dioxane	1153.9	71	"	2144.4	U	53.8	25-70		
1-Methylnaphthalene	1493.7	71	"	2144.4	U	69.7	54-88		
2,3,4,6-Tetrachlorophenol	2018.0	350	"	2144.4	U	94.1	45-115		
2,4,5-Trichlorophenol	1902.3	350	"	2144.4	U	88.7	63-107		
2,4,6-Trichlorophenol	1816.6	350	"	2144.4	U	84.7	47-106		
2,4-Dichlorophenol	1806.9	350	"	2144.4	U	84.3	55-99		
2,4-Dimethylphenol	1616.6	350	"	2144.4	U	75.4	10-117		
2,4-Dinitrophenol	3175.5	710	"	4288.8	U	74.0	10-145		
2,4-Dinitrotoluene	1937.7	350	"	2144.4	U	90.4	64-107		
2,6-Dinitrotoluene	1885.2	350	"	2144.4	U	87.9	63-106		
2-Chloronaphthalene	1792.0	350	"	2144.4	U	83.6	55-94		
2-Chlorophenol	1688.5	350	"	2144.4	U	78.7	44-93		
2-Methyl-4,6-dinitrophenol	1878.8	350	"	2144.4	U	87.6	18-127		
2-Methylnaphthalene	1657.6	71	"	2144.4	U	77.3	58-97		
2-Methylphenol	1667.7	350	"	2144.4	U	77.8	5-115		
2-Nitroaniline	1935.1	350	"	2144.4	U	90.2	52-117		
2-Nitrophenol	1702.7	350	"	2144.4	U	79.4	59-94		
3,3'-Dichlorobenzidine	1009.1	350	"	2144.4	U	47.1	10-99		
3-Nitroaniline	1561.3	350	"	2144.4	U	72.8	10-117		
4-Bromophenyl phenyl ether	1792.7	350	"	2144.4	U	83.6	49-105		
4-Chloro-3-methylphenol	1831.7	350	"	2144.4	U	85.4	54-105		
4-Chloroaniline	995.93	350	"	2144.4	U	46.4	10-73		
4-Chlorophenyl phenyl ether	1705.6	350	"	2144.4	U	79.5	49-105		
4-Nitroaniline	1908.6	350	"	2144.4	U	89.0	10-151		
4-Nitrophenol	1879.1	350	"	2144.4	U	87.6	57-111		
Acenaphthene	1752.3	71	"	2144.4	U	81.7	51-106		
Acenaphthylene	1824.2	71	"	2144.4	54.409	82.5	43-106		
Acetophenone	1790.4	350	"	2144.4	U	83.5	46-98		
Anthracene	1995.6	71	"	2144.4	100.57	88.4	45-103		
Atrazine	1656.6	350	"	2144.4	U	77.3	10-115		
Benzaldehyde	1485.5	350	"	2144.4	U	69.3	10-139		
Benzo(a)anthracene	1814.5	71	"	2144.4	41.720	82.7	10-190		
Benzo(a)pyrene	1857.0	71	"	2144.4	124.77	80.8	10-172		
Benzo(b)fluoranthene	2008.4	71	"	2144.4	279.71	80.6	10-190		
Benzo(g,h,i)perylene	2084.3	71	"	2144.4	561.76	71.0	10-131		
Benzo(k)fluoranthene	1695.6	71	"	2144.4	168.42	71.2	10-184		
Benzyl alcohol	1850.9	350	"	2144.4	393.26	68.0	46-101		



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division

980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 17-0399

Project: 17-0399, International Paper/Baldwin Pole - Reported by Diana Burdette

Semi Volatile Organics (SVOA) - Quality Control**US-EPA, Region 4, SESD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	RPD Limit	Notes
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Batch 1706058 - E 3545A Modified

Matrix Spike (1706058-MS1)	Source: E172408-03			Prepared: 06/21/17 Analyzed: 07/07/17						
Benzyl butyl phthalate	1926.4	350	ug/kg dry	2144.4	U	89.8	42-114			
Bis(2-chloro-1-methylethyl) ether	1577.4	350	"	2144.4	U	73.6	44-97			
Bis(2-chloroethoxy)methane	1647.5	350	"	2144.4	U	76.8	52-98			
bis(2-Chloroethyl) Ether	1611.5	350	"	2144.4	U	75.2	41-98			
Bis(2-ethylhexyl) phthalate	1659.0	350	"	2144.4	U	77.4	10-174			
Caprolactam	1825.3	350	"	2144.4	U	85.1	63-103			
Carbazole	2053.5	71	"	2144.4	39.211	93.9	54-115			
Chrysene	2082.9	71	"	2144.4	111.58	91.9	10-190			
Dibenz(a,h)anthracene	1797.3	71	"	2144.4	67.276	80.7	22-114			
Dibenzo furan	1943.1	71	"	2144.4	U	90.6	50-103			
Diethyl phthalate	1712.5	350	"	2144.4	U	79.9	54-94			
Dimethyl phthalate	1843.7	350	"	2144.4	U	86.0	56-94			
Di-n-butylphthalate	1805.9	350	"	2144.4	U	84.2	46-92			
Di-n-octylphthalate	1722.2	350	"	2144.4	U	80.3	33-141			
Fluoranthene	1792.3	71	"	2144.4	63.477	80.6	10-145			
Fluorene	1798.0	71	"	2144.4	U	83.8	53-111			
Hexachlorobenzene (HCB)	2493.1	350	"	2144.4	U	116	34-83			QM-2
Hexachlorocyclopentadiene (HCCP)	1309.1	350	"	2144.4	U	61.0	10-88			
Hexachloroethane	1579.4	350	"	2144.4	U	73.7	42-83			
Indeno (1,2,3-cd) pyrene	1917.4	71	"	2144.4	278.39	76.4	10-131			
Isophorone	1848.2	350	"	2144.4	U	86.2	58-93			
Naphthalene	1586.0	71	"	2144.4	U	74.0	56-88			
Nitrobenzene	1815.0	350	"	2144.4	U	84.6	43-110			
n-Nitroso di-n-Propylamine	1806.6	350	"	2144.4	U	84.2	52-92			
n-Nitrosodiphenylamine/Diphenylamine	1986.7	350	"	2144.4	U	92.6	32-115			
Pentachlorophenol	2036.2	350	"	2144.4	167.81	87.1	43-107			
Phenanthrene	1842.3	71	"	2144.4	U	85.9	10-171			
Phenol	1721.2	350	"	2144.4	U	80.3	46-97			
Pyrene	2034.8	71	"	2144.4	101.72	90.1	10-180			



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division

980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 17-0399

Project: 17-0399, International Paper/Baldwin Pole - Reported by Diana Burdette

Semi Volatile Organics (SVOA) - Quality Control**US-EPA, Region 4, SESD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	Limit Notes
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Batch 1706058 - E 3545A Modified**Matrix Spike Dup (1706058-MSD1)****Source: E172408-03**

Prepared: 06/21/17 Analyzed: 07/07/17

EPA 8270D

(3-and/or 4-)Methylphenol	1470.5	350	ug/kg dry	2143.6	U	68.6	10-119	19.7	99
1,1-Biphenyl	1500.2	71	"	2143.6	U	70.0	56-96	17.8	16 QM-3
1,4-Dioxane	718.26	71	"	2143.6	U	33.5	25-70	46.5	25 QM-3
1-Methylnaphthalene	1205.5	71	"	2143.6	U	56.2	54-88	21.4	18 QM-3
2,3,4,6-Tetrachlorophenol	1962.4	350	"	2143.6	U	91.5	45-115	2.80	17
2,4,5-Trichlorophenol	1771.8	350	"	2143.6	U	82.7	63-107	7.10	14
2,4,6-Trichlorophenol	1655.7	350	"	2143.6	U	77.2	47-106	9.27	19
2,4-Dichlorophenol	1501.5	350	"	2143.6	U	70.0	55-99	18.5	17 QM-3
2,4-Dimethylphenol	1276.4	350	"	2143.6	U	59.5	10-117	23.5	98
2,4-Dinitrophenol	2505.8	710	"	4287.2	U	58.4	10-145	23.6	95
2,4-Dinitrotoluene	1865.6	350	"	2143.6	U	87.0	64-107	3.79	15
2,6-Dinitrotoluene	1797.3	350	"	2143.6	U	83.8	63-106	4.77	14
2-Chloronaphthalene	1494.4	350	"	2143.6	U	69.7	55-94	18.1	15 QM-3
2-Chlorophenol	1263.1	350	"	2143.6	U	58.9	44-93	28.8	21 QM-3
2-Methyl-4,6-dinitrophenol	1778.3	350	"	2143.6	U	83.0	18-127	5.50	22
2-Methylnaphthalene	1315.2	71	"	2143.6	U	61.4	58-97	23.0	18 QM-3
2-Methylphenol	1351.0	350	"	2143.6	U	63.0	5-115	21.0	62
2-Nitroaniline	1797.5	350	"	2143.6	U	83.9	52-117	7.37	18
2-Nitrophenol	1271.9	350	"	2143.6	U	59.3	59-94	29.0	17 QM-3
3,3'-Dichlorobenzidine	1069.8	350	"	2143.6	U	49.9	10-99	5.84	58
3-Nitroaniline	1589.4	350	"	2143.6	U	74.1	10-117	1.78	49
4-Bromophenyl phenyl ether	1673.8	350	"	2143.6	U	78.1	49-105	6.86	17
4-Chloro-3-methylphenol	1673.6	350	"	2143.6	U	78.1	54-105	9.02	19
4-Chloroaniline	947.12	350	"	2143.6	U	44.2	10-73	5.02	49
4-Chlorophenyl phenyl ether	1568.2	350	"	2143.6	U	73.2	49-105	8.39	17
4-Nitroaniline	1904.6	350	"	2143.6	U	88.9	10-151	0.206	61
4-Nitrophenol	1805.9	350	"	2143.6	U	84.2	57-111	3.97	22
Acenaphthene	1565.7	71	"	2143.6	U	73.0	51-106	11.2	22
Acenaphthylene	1623.2	71	"	2143.6	54.409	73.2	43-106	11.7	20
Acetophenone	1358.5	350	"	2143.6	U	63.4	46-98	27.4	14 QM-3
Anthracene	1911.1	71	"	2143.6	100.57	84.5	45-103	4.32	20
Atrazine	1667.7	350	"	2143.6	U	77.8	10-115	0.669	13
Benzaldehyde	1086.1	350	"	2143.6	U	50.7	10-139	31.1	70
Benzo(a)anthracene	1799.2	71	"	2143.6	41.720	82.0	10-190	0.847	35
Benzo(a)pyrene	1809.3	71	"	2143.6	124.77	78.6	10-172	2.60	36
Benzo(b)fluoranthene	1925.0	71	"	2143.6	279.71	76.8	10-190	4.24	38
Benzo(g,h,i)perylene	1923.4	71	"	2143.6	561.76	63.5	10-131	8.03	34
Benzo(k)fluoranthene	1762.0	71	"	2143.6	168.42	74.3	10-184	3.84	32
Benzyl alcohol	1446.1	350	"	2143.6	393.26	49.1	46-101	24.6	31



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division

980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 17-0399

Project: 17-0399, International Paper/Baldwin Pole - Reported by Diana Burdette

Semi Volatile Organics (SVOA) - Quality Control**US-EPA, Region 4, SESD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	RPD Limit	Notes
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Batch 1706058 - E 3545A Modified

Matrix Spike Dup (1706058-MSD1)	Source: E172408-03			Prepared: 06/21/17 Analyzed: 07/07/17						
Benzyl butyl phthalate	1787.8	350	ug/kg dry	2143.6	U	83.4	42-114	7.46	24	
Bis(2-chloro-1-methylethyl) ether	1168.9	350	"	2143.6	U	54.5	44-97	29.8	12	QM-3
Bis(2-chloroethoxy)methane	1279.0	350	"	2143.6	U	59.7	52-98	25.2	11	QM-3
bis(2-Chloroethyl) Ether	1156.9	350	"	2143.6	U	54.0	41-98	32.8	27	QM-3
Bis(2-ethylhexyl) phthalate	1652.2	350	"	2143.6	U	77.1	10-174	0.411	10	
Caprolactam	1821.3	350	"	2143.6	U	85.0	63-103	0.220	13	
Carbazole	2023.2	71	"	2143.6	39.211	92.6	54-115	1.49	19	
Chrysene	1979.8	71	"	2143.6	111.58	87.2	10-190	5.08	34	
Dibenz(a,h)anthracene	1682.8	71	"	2143.6	67.276	75.4	22-114	6.58	22	
Dibenzo furan	1753.7	71	"	2143.6	U	81.8	50-103	10.3	22	
Diethyl phthalate	1683.7	350	"	2143.6	U	78.5	54-94	1.69	15	
Dimethyl phthalate	1738.3	350	"	2143.6	U	81.1	56-94	5.89	10	
Di-n-butylphthalate	1779.2	350	"	2143.6	U	83.0	46-92	1.48	24	
Di-n-octylphthalate	1705.8	350	"	2143.6	U	79.6	33-141	0.953	20	
Fluoranthene	2010.8	71	"	2143.6	63.477	90.8	10-145	11.5	60	
Fluorene	1686.5	71	"	2143.6	U	78.7	53-111	6.40	22	
Hexachlorobenzene (HCB)	2368.2	350	"	2143.6	U	110	34-83	5.14	15	QM-2
Hexachlorocyclopentadiene (HCCP)	919.19	350	"	2143.6	U	42.9	10-88	35.0	100	
Hexachloroethane	1063.8	350	"	2143.6	U	49.6	42-83	39.0	19	QM-3
Indeno (1,2,3-cd) pyrene	1791.6	71	"	2143.6	278.39	70.6	10-131	6.78	31	
Isophorone	1509.9	350	"	2143.6	U	70.4	58-93	20.1	12	QM-3
Naphthalene	1191.4	71	"	2143.6	U	55.6	56-88	28.4	18	QM-1, QM-3
Nitrobenzene	1330.2	350	"	2143.6	U	62.1	43-110	30.8	14	QM-3
n-Nitroso di-n-Propylamine	1399.9	350	"	2143.6	U	65.3	52-92	25.4	13	QM-3
n-Nitrosodiphenylamine/Diphenylamine	1856.7	350	"	2143.6	U	86.6	32-115	6.77	24	
Pentachlorophenol	1919.8	350	"	2143.6	167.81	81.7	43-107	5.89	21	
Phenanthrene	1771.6	71	"	2143.6	U	82.6	10-171	3.91	52	
Phenol	1419.4	350	"	2143.6	U	66.2	46-97	19.2	38	
Pyrene	1971.1	71	"	2143.6	101.72	87.2	10-180	3.18	50	



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

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D.A.R.T. Id: 17-0399

Project: 17-0399, International Paper/Baldwin Pole - Reported by Diana Burdette

Semi Volatile Organics (SVOA) - Quality Control**US-EPA, Region 4, SESD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	Limit Notes
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Batch 1706058 - E 3545A Modified**MRL Verification (1706058-PS1)**

Prepared: 06/21/17 Analyzed: 07/06/17

EPA 8270D

(3-and/or 4-)Methylphenol	229.90	330	ug/kg dry	333.33	69.0	36-114			MRL-3, Q-2, J
1,1-Biphenyl	52.700	66	"	66.667	79.0	40-115			MRL-3, Q-2, J
1,4-Dioxane	33.267	66	"	66.667	49.9	10-96			MRL-3, Q-2, J
1-Methylnaphthalene	43.467	66	"	66.667	65.2	39-107			MRL-3, Q-2, J
2,3,4,6-Tetrachlorophenol	268.83	330	"	333.33	80.6	22-148			MRL-3, Q-2, J
2,4,5-Trichlorophenol	261.63	330	"	333.33	78.5	46-125			MRL-3, Q-2, J
2,4,6-Trichlorophenol	246.20	330	"	333.33	73.9	43-118			MRL-3, Q-2, J
2,4-Dichlorophenol	257.63	330	"	333.33	77.3	42-117			MRL-3, Q-2, J
2,4-Dimethylphenol	113.40	330	"	333.33	34.0	10-107			MRL-3, Q-2, J
2,4-Dinitrophenol	116.20	660	"	666.67	17.4	10-91			MRL-3, Q-2, J
2,4-Dinitrotoluene	270.33	330	"	333.33	81.1	45-130			MRL-3, Q-2, J
2,6-Dinitrotoluene	275.20	330	"	333.33	82.6	42-130			MRL-3, Q-2, J
2-Chloronaphthalene	256.00	330	"	333.33	76.8	37-116			MRL-3, Q-2, J
2-Chlorophenol	245.17	330	"	333.33	73.6	36-110			MRL-3, Q-2, J
2-Methyl-4,6-dinitrophenol	160.33	330	"	333.33	48.1	31-119			MRL-3, Q-2, J
2-Methylnaphthalene	46.900	66	"	66.667	70.4	43-116			MRL-3, Q-2, J
2-Methylphenol	225.57	330	"	333.33	67.7	33-112			MRL-3, Q-2, J
2-Nitroaniline	280.90	330	"	333.33	84.3	41-136			MRL-3, Q-2, J
2-Nitrophenol	234.20	330	"	333.33	70.3	40-112			MRL-3, Q-2, J
3,3'-Dichlorobenzidine	198.27	330	"	333.33	59.5	11-124			MRL-3, Q-2, J
3-Nitroaniline	210.50	330	"	333.33	63.2	36-121			MRL-3, Q-2, J
4-Bromophenyl phenyl ether	255.13	330	"	333.33	76.5	35-129			MRL-3, Q-2, J
4-Chloro-3-methylphenol	254.23	330	"	333.33	76.3	43-122			MRL-3, Q-2, J
4-Chloroaniline	157.77	330	"	333.33	47.3	10-116			MRL-3, Q-2, J



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Region 4 Science and Ecosystem Support Division

980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 17-0399

Project: 17-0399, International Paper/Baldwin Pole - Reported by Diana Burdette

Semi Volatile Organics (SVOA) - Quality Control**US-EPA, Region 4, SESD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	RPD Limit	Notes
Batch 1706058 - E 3545A Modified										
MRL Verification (1706058-PS1)										
Prepared: 06/21/17 Analyzed: 07/06/17										
4-Chlorophenyl phenyl ether										
253.50 330 ug/kg dry 333.33 76.0 35-129 MRL-3, Q-2, J										
4-Nitroaniline										
240.70 330 " 333.33 72.2 36-155 MRL-3, Q-2, J										
4-Nitrophenol										
278.53 330 " 333.33 83.6 38-137 MRL-3, Q-2, J										
Acenaphthene										
48.533 66 " 66.667 72.8 40-122 MRL-3, Q-2, J										
Acenaphthylene										
51.367 66 " 66.667 77.0 39-120 MRL-3, Q-2, J										
Acetophenone										
261.80 330 " 333.33 78.5 29-116 MRL-3, Q-2, J										
Anthracene										
50.767 66 " 66.667 76.2 41-122 MRL-3, Q-2, J										
Atrazine										
275.87 330 " 333.33 82.8 10-143 MRL-3, Q-2, J										
Benzaldehyde										
220.23 330 " 333.33 66.1 21-145 MRL-3, Q-2, J										
Benzo(a)anthracene										
58.633 66 " 66.667 87.9 45-125 MRL-3, Q-2, J										
Benzo(a)pyrene										
56.833 66 " 66.667 85.2 40-133 MRL-3, Q-2, J										
Benzo(b)fluoranthene										
53.133 66 " 66.667 79.7 41-136 MRL-3, Q-2, J										
Benzo(g,h,i)perylene										
62.967 66 " 66.667 94.4 25-134 MRL-3, Q-2, J										
Benzo(k)fluoranthene										
60.567 66 " 66.667 90.8 37-135 MRL-3, Q-2, J										
Benzyl alcohol										
270.63 330 " 333.33 81.2 30-124 MRL-3, Q-2, J										
Benzyl butyl phthalate										
323.40 330 " 333.33 97.0 36-132 MRL-3, Q-2, J										
Bis(2-chloro-1-methylethyl) ether										
223.70 330 " 333.33 67.1 20-125 MRL-3, Q-2, J										
Bis(2-chloroethoxy)methane										
246.07 330 " 333.33 73.8 31-122 MRL-3, Q-2, J										
bis(2-Chloroethyl) Ether										
233.60 330 " 333.33 70.1 23-120 MRL-3, Q-2, J										
Bis(2-ethylhexyl) phthalate										
294.47 330 " 333.33 88.3 35-129 MRL-3, Q-2, J										
Caprolactam										
278.03 330 " 333.33 83.4 46-121 MRL-3, Q-2, J										
Carbazole										
57.967 66 " 66.667 87.0 42-132 MRL-3, Q-2, J										
Chrysene										
56.900 66 " 66.667 85.4 40-126 MRL-3, Q-2, J										
Dibenz(a,h)anthracene										
61.700 66 " 66.667 92.5 26-137 MRL-3, Q-2, J										



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division

980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 17-0399

Project: 17-0399, International Paper/Baldwin Pole - Reported by Diana Burdette

Semi Volatile Organics (SVOA) - Quality Control**US-EPA, Region 4, SESD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	RPD Limit	Notes
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Batch 1706058 - E 3545A Modified**MRL Verification (1706058-PS1)**

Prepared: 06/21/17 Analyzed: 07/06/17

Dibenzofuran	53.833	66	ug/kg dry	66.667	80.7	37-120				MRL-3, Q-2, J
Diethyl phthalate	264.50	330	"	333.33	79.4	37-119				MRL-3, Q-2, J
Dimethyl phthalate	273.47	330	"	333.33	82.0	35-117				MRL-3, Q-2, J
Di-n-butylphthalate	292.70	330	"	333.33	87.8	34-121				MRL-3, Q-2, J
Di-n-octylphthalate	334.07	330	"	333.33	100	28-147				MRL-3
Fluoranthene	48.800	66	"	66.667	73.2	44-125				MRL-3, Q-2, J
Fluorene	48.000	66	"	66.667	72.0	42-128				MRL-3, Q-2, J
Hexachlorobenzene (HCB)	357.30	330	"	333.33	107	16-111				MRL-3
Hexachlorocyclopentadiene (HCCP)	208.53	330	"	333.33	62.6	10-119				MRL-3, Q-2, J
Hexachloroethane	213.67	330	"	333.33	64.1	30-106				MRL-3, Q-2, J
Indeno (1,2,3-cd) pyrene	61.833	66	"	66.667	92.7	28-136				MRL-3, Q-2, J
Isophorone	276.53	330	"	333.33	83.0	35-120				MRL-3, Q-2, J
Naphthalene	46.400	66	"	66.667	69.6	38-109				MRL-3, Q-2, J
Nitrobenzene	268.23	330	"	333.33	80.5	32-122				MRL-3, Q-2, J
n-Nitroso di-n-Propylamine	262.83	330	"	333.33	78.8	30-118				MRL-3, Q-2, J
n-Nitrosodiphenylamine/Diphenylamine	264.83	330	"	333.33	79.4	39-124				MRL-3, Q-2, J
Pentachlorophenol	218.70	330	"	333.33	65.6	30-125				MRL-3, Q-2, J
Phenanthrene	52.800	66	"	66.667	79.2	42-123				MRL-3, Q-2, J
Phenol	257.67	330	"	333.33	77.3	36-114				MRL-3, Q-2, J
Pyrene	55.033	66	"	66.667	82.5	38-139				MRL-3, Q-2, J



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Notes and Definitions for QC Samples

- U The analyte was not detected at or above the reporting limit.
- J The identification of the analyte is acceptable; the reported value is an estimate.
- MRL-3 MRL verification for Soil matrix
- Q-2 Result greater than MDL but less than MRL.
- QL-2 Laboratory Control Spike Recovery greater than method control limits
- QM-1 Matrix Spike Recovery less than method control limits
- QM-2 Matrix Spike Recovery greater than method control limits
- QM-3 Matrix Spike Precision outside method control limits

END OF REPORT